

Note: Marker symbols (⊙) are only site reference and do not indicate full extent of sites.

Geographic Response Plan - 10

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GRP 10 Site Index/Response Actions

Site ID	Priority	Site Description	Assignment	Date/Time Required	Date/Time Completed
SF-10		San Joaquin River, Port of Stockton			
SF-15		Calaveras River Mouth at San Joaquin River			
SF-18		Burns Cutoff at Rough and Ready Island			
SF-20		San Joaquin River, Stockton to Lathrop Reach			
SF-21		French Camp Slough			
SF-30		San Joaquin River, Roberts Island Reach			
SF-33		Fourteenmile Slough			
SF-40		San Joaquin R: Hog Island Cut Complex			
SF-45		Disappointment Slough			
SF-50		San Joaquin River, Ward Cut Islands Complex			
SF-60		San Joaquin River, Mandeville/ Venice Tips Complex			
SF-65		Little Potato Slough			
SF-70		Potato Slough			
SF-80		Whites Slough			

ACP Sensitive Site Resource List - GRP 10

SITE	SUB	SITENAME SO	Strategy Objective	HBOOM	SWBM	XBOOM	SORB	Bboat / skiff	# / Type	Skimmer	Special Equipment	Deploy Personnel
2-010	. 1	San Joaquin River, Port of Stockton	2000				2000	1/1	1	portable + VT	Good land deployment options	5 /2 VESSELS
		5	1st phase: Stop oil from entering or leaving the Harbor across mouth.									
	. 2	San Joaquin River, Port of Stockton	200				200	0/1				2
		5	2nd phase: Close off passages under south side wharf.									
	. 3	San Joaquin River, Port of Stockton	1500				1000	0/1	1	SSS		4
		5	3rd phase: Close off San Joaquin River mouth from oil movement, in or out. See San Joaquin R, Stockton to Lathrop Reach.									
2-015	. 1	Cleavers River Mouth at San Joaquin River	500				500	0/1				2
		5	Exclude oil from entering or leaving the Calaveras River mouth.									
2-018	. 1	Burns Cutoff at Rough and Ready Island	200				200	0/1				2
		5	Exclude oil from entering or leaving the San Joaquin River (upstream) end.									
	. 2	Burns Cutoff at Rough and Ready Island	100				100			0/1		SAME
		5	Exclude oil from entering or leaving Deep Water Channel (downstream end) mouth.									
2-020	. 1	San Joaquin River, Stockton to Lathrop Reach	1500				1500	0/1	1	SSS		5
		5	Exclude oil from entering or leaving the mouth of San Joaquin at Stockton Harbor entrance.									
	. 2	San Joaquin River, Stockton to Lathrop Reach	400				600	0/1	1	portablae &		4
		6	In the event of a spill in upstream portion, contain and collect oil. Protect side channels and vegetation pockets as necessary.									
2-021	. 1	French Camp Slough	300				200	0/1			possible land-based skimmer	2
		5	Stop oil from entering or leaving the slough mouth: Stop oil entry on incoming tide or oil escapement if originating within slough.									
	. 2	French Camp Slough	300				200	0/1	1	SSS		2
		5,6	If oil is coming down river from upstream, keep oil out of slough and divert oil to opposite side of San Joaquin River to collect.									
2-030	. 1	San Joaquin River, Roberts Island Reach	2000				3000	2/1				9
		8	Stop oiling of marshy margins of Walters Island by excluding oil from backside channel and cover Deep Water frontage with sorbent.									
	. 2	San Joaquin River, Roberts Island Reach	1200					1/1	1	portable & VT		4 + 5 SHORE
		5,6	Halt oil movement up/down Stockton Channel by diverting oil to shore for pickup.									
2-033	. 1	Fourteenmile Slough	600				500	1/1				5
		5	Exclude oil from entering or leaving the Slough River mouth at east end of Morrison Island at light G33.									
	. 2	Fourteenmile Slough	500					1/1				5
		5	Exclude oil from entering/leaving slough mouth at west end of Morrison Island G 31.									
	. 3	Fourteenmile Slough					500	0/1				2
		8	Minimize oil of emergent vegetation on Morrison Island.									
2-040	. 1	San Joaquin River, Hog Island Cut Complex	3000				3000				possible land skimming	4
		5	Part 1, NORTH SIDE: Exclude oil from backside of north Hog Island setting boom at each end of backside channel.									
	. 2	San Joaquin River, Hog Island Cut Complex	1600				200					4
		5	Part 2, SOUTH: Exclude oil from 21 mile slough (south margin of Spud Island) by exclusion booming each end.									
	. 3	San Joaquin River, Hog Island Cut Complex	2000					3/0	1	portable & VT		9
		5,6	Part 3: Exclude/Collect - If oil is west of site and moving easterly, divert oil to levee bank for collection as wind and currents permit.									
2-045	. 1	Disappointment Slough	1300				1500					2
		5	Exclude oil from entering or leaving the slough mouth at west end (near the Ship Channel).									
	. 2	Disappointment Slough	400					0/1				2
		5	Exclude oil from entering or leaving Slough via Honker Cut and Bishop Cut.									
2-050	. 1	San Joaquin River, Ward Cut Islands Complex	1600				2000	2/1	1	portable & VT		8
		5	Part 1: Exclude/contain oil from movement into or out of east end of site (light R16) and divert oil to shore for collection.									
	. 2	San Joaquin River, Ward Cut Islands Complex	1200				1200	2/1				8
		5	Part 2: Exclude/divert oil entering/leaving west end of site. Wind waves are typically a problem here.									
	. 3	San Joaquin River, Ward Cut Islands Complex	4000				4000	0/2				4
		5	Part 3: Sorbent and exclusion boom included islands as necessary.									
2-060	. 1	San Joaquin River, Mandeville/Venice Tips	2000				2000		3/1			8
		5	Part 2: Oil threats at west end of site (R58): Exclude/divert oil entering/leaving west end of site.									
	. 2	San Joaquin River, Mandeville/Venice Tips	8000				8000		3/1			8
		5	Part 3: Protect open exposure to channel and shore line openings of each tip to stop oil from entering interiors.									
2-060	. 3	San Joaquin River, Mandeville/Venice Tips										SEE INSTRUCTIONS
		5	Part 1: For oil threats into/out of east end of site (R6) using Ward Cut and Middle River Strategies									
2-065	. 1	Little Potato Slough	1000				1000					2 PERSON/1 SKIFF
		5	At SOUTH end (near Ship Channel): Exclude oil from entering or leaving the Slough mouth. Site subject to strong wind/currents.									
	. 2	Little Potato Slough	300				300	0/1			possible skim	2 PERSON
		5	At NORTH END: Exclude oil from entering or leaving Slough at South Mokelumne River junction.									
	. 3	Little Potato Slough	3500					0/1				2
		5	At LITTLE VENICE ISLAND (at Ship Channel) and side Sloughs: Halt oil movement into or out side channels and marshes.									
2-070	. 1	Potato Slough	400				400	0/1				2 person/1 skiff
		5	Exclude oil from entering or leaving the Slough mouth at east end on Little Potato.									
	. 2	Potato Slough	1200					2/1				8
		5	Stop oil from entering slough at San Joaquin River by exclusion booming.									
2-080	. 1	White's Slough	400				400	0/1				SEE BELOW
		5	Exclude oil from entering or leaving the slough mouths at each end of Devil's Isle at the junction with Little Potato Slough.									
	. 2	White's Slough	200					0/1				2 PERSON/1 SKIFFS
		5	Exclude oil from entering/leaving the slough via Honker Cut.									
	. 3	White's Slough	200					0/1				SEE ABOVE
		5	Exclude oil from entering/leaving White Slough via Bishop Cut.									

San Joaquin River, Port of Stockton - Site Summary

2-010 -A

County: San Joaquin
USGS: Stockton West

GRP: **Latitude** 37 57.2 N **Longitude** 121 20 W
OSPR Map: 173 **Last ACP Update** 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site is from intersection of San Joaquin River and Deep Water Channel at the Port of Stockton (R 48) to terminus of harbor east of I-5. This deepwater port is heavily developed with commercial wharves and facilities. The margins are either heavily riprapped or have seawalls and piers. Some mature trees line the edges. This is an area with high likelihood of originating spills.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Special Status Species occur here: modest numbers of Delta smelt (F/CT) are here during Nov and Dec; Swainson's hawk and burrowing owl nest and forage in this vicinity.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Aquatic environment supports freshwater community. Low dissolved oxygen can stress this community in late summer. Shore-side life that can utilize extremely disturbed areas.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Swainson's hawk (FSC/CT) and burrowing owl (CSC) nest and forage north of and along the harbor. During fall/winter modest numbers of Delta smelt occur. Juvenile and adult striped bass are typical as are warm water species.

Freshwater invertebrates are those typical of low salinity delta waters.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-010 -A San Joaquin River, Port of Stockton - Site Strategy

County: San Joaquin CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER Latitude 37 57.2 N Longitude 121 20 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site is from intersection of San Joaquin River and Deep Water Channel at the Port of Stockton (R 48) to terminus of harbor east of I-5.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Beware of ship traffic and wharf equipment operations. Waters are deep draft except in SJ River. Aerial traffic beware of power wires.

Note pipeline crossings under SJR just upstream from Harbor.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

This site has a relatively high probability of occurring due to proximity of tank farms, vessels, and industrial petroleum supplies. Although there are ecological concerns here, the objective is to confine oil to this site and prevent it from moving to other sites, particularly to upstream. Oil issues within the site are penetration into riprap, oiling of pilings and collection behind seawalls and under wharves.

SITE STRATEGIES

Strategy 2-010.1

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/15/1995 07/01/1996

Objective or Prevention Condition

1st phase: Stop oil from entering or leaving the Harbor across mouth.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set boom across Harbor mouth at a diagonal. Anchor/attach one boom end to wharf #9 seawall and angle across channel to fend oil to North shore. Leave a trailing boom length to maintain seal during tidal vacillations. Skim at north bank attachment. Wind wash can be a problem here.

Strategy 2-010.2

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/15/1995 07/01/1996

Objective or Prevention Condition

2nd phase: Close off passages under south side wharf.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Oil can travel through the open spaces under Wharf #9. Lay boom under east end of Wharf #9 and also across openings at west end. Leave trailing ends to keep seal during tidal flux.

Strategy 2-010.3

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/15/1995 07/01/1996

Objective or Prevention Condition

3rd phase: Close off San Joaquin River mouth from oil movement, in or out. See San Joaquin R, Stockton to Lathrop Reach.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

This Strategy is copied from 2-020 San Joaquin River, Stockton to Lathrop Reach: Set 4X4+ boom from dolphin southwest of Wharf #9 diagonally across river mouth to channel side of Rough and Ready Island. Anchor to keep a long diagonal downstream. Skim oil in San Joaquin from eddy at tip of Rough&Ready Island and oil from harbor from east side land sites near dolphin.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers -No	special equip	deploy personnel	tending personnel	SO
2-010.1	2000			6/25/DANFORTH	2000	1/1	portable + VT	1 Good land deployment options	5/2 VESSELS	regular inspection	5
2-010.2		200		3/15lb/danforth	200	0/1			2	same as above	5
2-010.3		1500		4/15 lb/danforth	1000	0/1	SSS	1	4	regular observation	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site is by boat from marinas within and just downstream from Stockton Harbor. Levee road to north and wharves on south side are accessible via surface streets off of I-5 exits north and south of harbor.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
PAVED LEVEE ROADS

WATER LOGISTICS:

Access limitations: depth, obstructions: deep draft, shallower in SJR
Boat Launching, Loading, Docking Stockton harbor area marina facilities.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

South wharves (or north levee road) is a ready deployment site with good access. Otherwise transport material by skiff.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

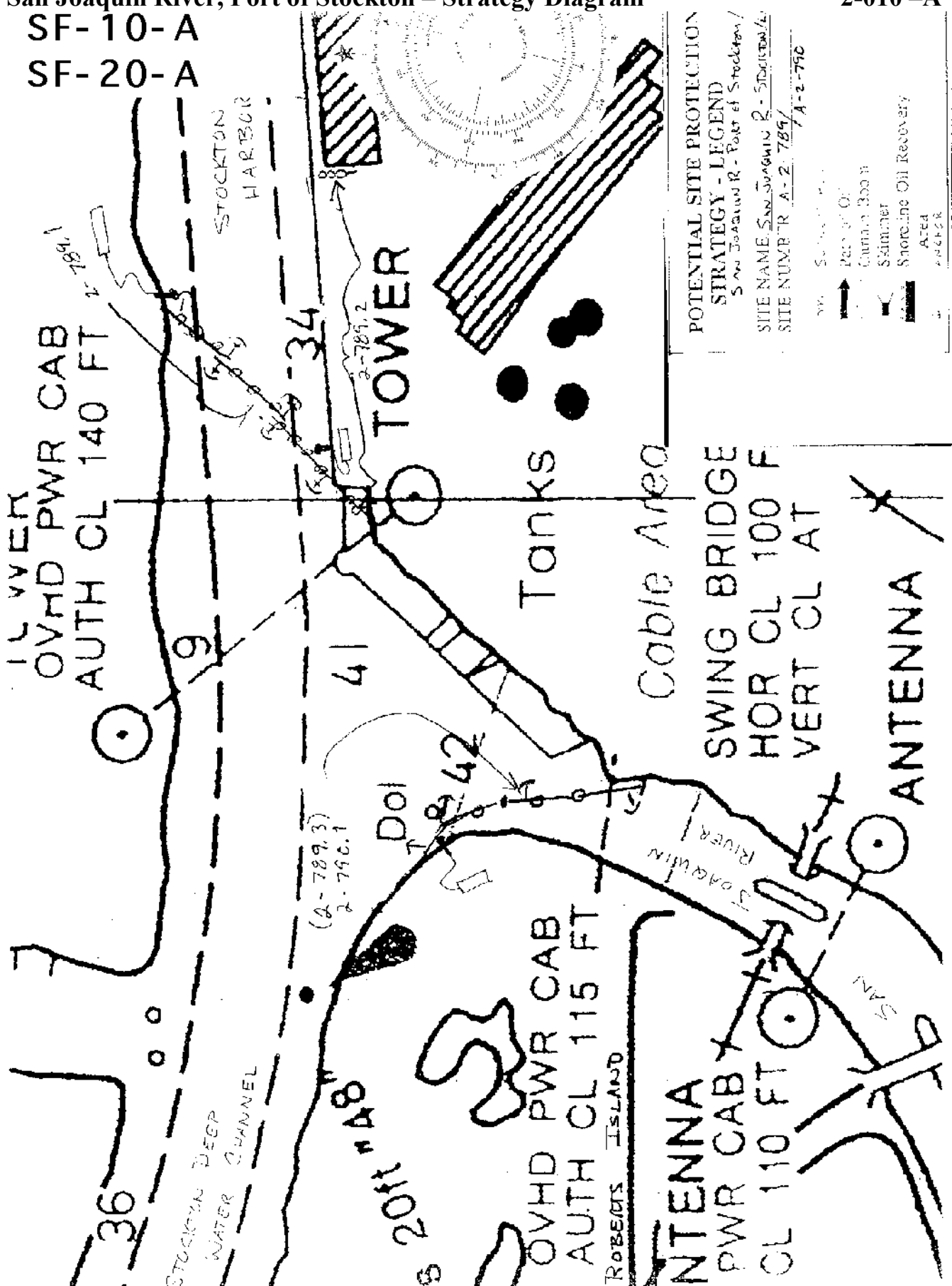
ADDITIONAL COMMENTS

San Joaquin River, Port of Stockton - Strategy Diagram

2-010 -A

SF- 10- A

SF- 20- A



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Calaveras River Mouth at San Joaquin River - Site Summary

2-015 -A

County: San Joaquin
USGS: Stockton West

GRP: Latitude 37 58 N Longitude 121 22 W
OSPR Map: 173 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site extends from mouth on Stockton Deep Water Channel (at G 41 opposite Burns Cutoff river mouth), about 3 miles up river to I-5 overpass. Though urbanized, this is a biologically rich and diverse site. This seasonal river is wide and deep at mouth but narrows and shallows rapidly upstream, with margin varying from heavily riprapped, revegetated levees to backyard piers to pockets of emergent marsh vegetation, berm islands and mature trees. Snags and shallows are common in this medium energy environment.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh and riparian vegetation zones are of "A" concern year-round. Special Status Species: During Nov-Dec modest numbers of Delta smelt (F/CT); winter-run chinook (F/CE) are a modest concern from mid Oct- May; Swainson's hawk (FSC/CT) and burrowing owl (CSC) are on uplands upstream from mouth all year. One rare plant.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Vulnerable marshy margins and islands and riparian growths. Diversified aquatic community including T/E species and migrant fish. Oil film could aggravate low dissolved oxygen condition typical of this area in summer months and threaten this aquatic community.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Two Special Status Species occur: Swainson's hawk (FSC/CT) and burrowing owl (CSC) nest and forage along river. Other typical marshy and riparian species: waterbirds and marsh birds.

Other fauna include species using mixed vegetation type such as riverine and semiaquatic species. Habitat may be suitable for western pond turtle.

In fall/winter this area has a modest occurrence of Delta smelt. There is a small salmon run in Calaveras. Juvenile and adult striped bass are typical as are warm water species.

Abundant emergent and rooted vegetation is present here. The rare plant, California Hibiscus, occurs here.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
B	Dale Sweetnam	Ca Dept Fish & Game - Ba/Delta Studies		
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Lex Corrales	Sargent-Barnhart	(209) 473-6155	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-015 -A Calaveras River Mouth at San Joaquin River - Site Strategy

County: San Joaquin CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER Latitude 37 58 N Longitude 121 22 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site extends from mouth on Stockton Deep Water Channel (at G 41 opposite Burns Cutoff river mouth), about 3 miles up river to I-5

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of high wires. Regarding boat handling, beware of shallows, snags and mud bars. Poison Oak. Slips & trips.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Concern is to close river mouth to exclude oil from entering the river and affecting upstream areas, or, if oil originates up river, keep it confined and prevent it from oiling other sites. Penetration into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands. Emergent and marsh vegetation cleaning issues.

SITE STRATEGIES

Strategy 2-015.1

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/15/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the Calaveras River mouth.

Technique Details

Check here means " No strategy diagram": () Check here means "Contact CCC": ()

Set boom across River mouth. Anchor one boom end near downstream riprap bank. Anchor upstream boom end upriver (SJR) near docks, leaving a trailing boom length to maintain seal during tidal vacillations. Skim riprap closure if spill is in river. Back with sorbent. Wind wash can be a problem here. Possible Shore Side Skimmer collection site.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-015.1	500			4/25/DANFORTH	500	0/1				2	regular inspection	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site is by boat accessible from Stockton Deep Water Channel at marker G 41. Levee road are accessible on east and west from surface streets off of I-5. (March Ln exit, south to Brookside levee access.)

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal, locked gates)
PAVED LEVEE ROADS

WATER LOGISTICS:

Access limitations: depth, obstructions: Shallow and shallower, snags

Boat Launching, Loading, Docking Boat launch, fuel, and other marina facilities are available at Stockton Port and other marinas up and Services Available: and down channel.

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Northwest levee road is a ready deployment site with good access. South levee area may work well too after gaining cooperation of homeowners. Otherwise transport material by skiff. Support facilities are widely available in Stockton area. There is a nearby waterfront

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

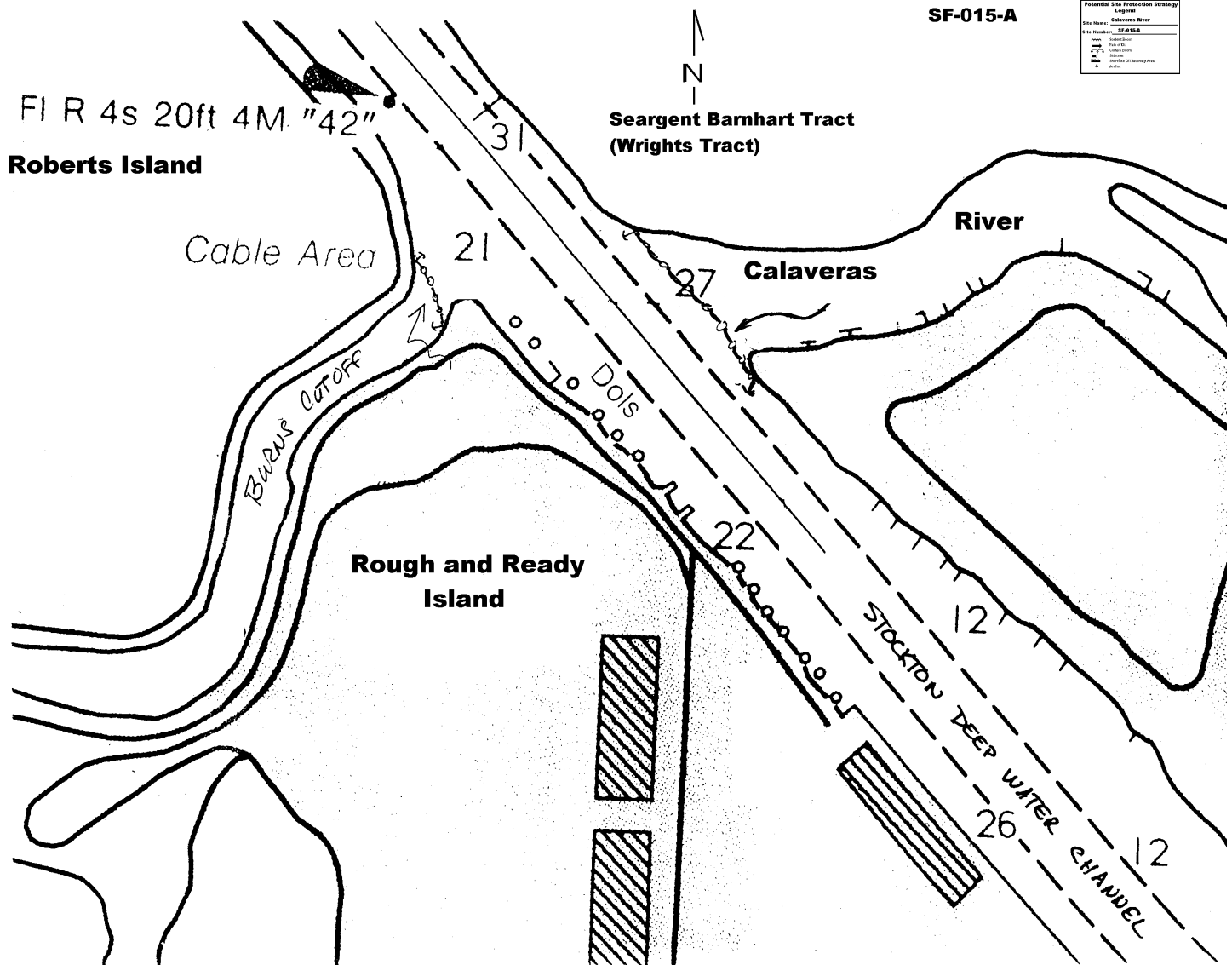
ADDITIONAL COMMENTS

Calaveras River Mouth at San Joaquin River – Strategy Diagram

2-015 -A

SF-015-A

Potential Site Protection Strategy Legend	
Site Name	Calaveras River
Site Number	2-015-A
Area	Channel Area
Area	Channel Area
Area	Channel Area
Area	Channel Area
Area	Channel Area
Area	Channel Area
Area	Channel Area
Area	Channel Area
Area	Channel Area



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Burns Cutoff at Rough and Ready Island - Site Summary

018 -A

2-

County: San Joaquin
USGS: Stockton West, Holt

GRP: Latitude 37 58.1 N Longitude 121 22 W
OSPR Map: 173 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

From mouth on Stockton Deep Water Channel (at R 42 opposite Calaveras River mouth), about 3 miles to mouth on San Joaquin River about 1 mile south of Port of Stockton. It is bordered by Rough & Ready Island on its NE shoreline. A fairly narrow, shallow water slough with margin varying from heavily riprapped, revegetated levees to emergent marsh vegetation and mature trees. Snags and shallows are common this medium energy slough. Several small marshes have developed in the slow bends of the slough in the westerly half.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh and riparian vegetation zones are of "A" concern year-round. In Nov-Dec delta smelt are present in modest numbers. Winter-run chinook are of modest concern mid Oct - May.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Although riparian edge is heavily disturbed due to riprapp, there are some significant marshy-riparian remnants, particularly in the westerly half. Aquatic community is typical for delta. This channel is used by sensitive and migrating fish species.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Bird life is riverine species including waterbirds and marsh birds. Other vertebrates are riverine and semiaquatic species which use marshy or riparian patches. Habitat may be suitable for western pond turtle.

During Nov-Dec Delta smelt (F/CT) are present in modest numbers. Salmon smolts pass through this channel. Winter run chinook smolts are of low to modest concern mid Oct - May. Juvenile and adult striped bass and warm water fish are typical.

Some sizable emergent vegetation marsh areas in westerly half.

Rare plants have not been found here except for a historic record of Delta tule pea on Rough & Ready Island.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-018 -A Burns Cutoff at Rough and Ready Island - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
37 58.1 N

Longitude
121 22 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

From mouth on Stockton Deep Water Channel (at R 42 opposite Calaveras River mouth), about 3 miles to mouth on San Joaquin River about 1 mile south of Port of Stockton. It is bordered by Rough & Ready Island on its NE shoreline.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of power wires. Regarding boat handling, beware of underground pipe crossing, shallows, snags and mud bars. Slips, trips and falls.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Concern is to exclude oil from entering this channel and contaminating additional habitat. Within the site the concerns are penetration into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands.

SITE STRATEGIES

Strategy 2-018.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/15/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the San Joaquin River (upstream) end.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set boom across slough mouth. Anchor one boom end near downstream riprap bank. Anchor upstream boom end upriver (SJR) past forested tip and to shore across mud shallows, leaving a trailing boom length to maintain seal during tidal vacillations. If spill is in slough, skim at riprap closure. Back with sorbent. Land-based deployment.

Strategy 2-018.2

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/15/1999 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving Deep Water Channel (downstream end) mouth.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Anchor boom across from just inside of mouth on Rough and Ready across to opposite shore (Roberts Island). Leave trailing boom ends to promote sealing during tidal flux. Back with sorbent boom. Skimming collection on west side.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skiff	skimmers -No	special equip	deploy personnel	tending personnel	SO
2-018.1	200			2/15/DANFORTH	200	0/1			2	occasional checks	5
2-018.2	100			2/15/ DANFORTH	100		0/1		SAME	occasional check	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site is from southerly side via I-5 to Hwy 4 to Private levee roads (from Hwy 4 and Roberts Island Road. Also access via Navy property (USN ROUGH & READY ISL). I-5 to Charter Way to Rough & Ready Naval Station (Rough & Ready Island access only by approval of USN). By boat accessible from SJ Deep Water Channel to south from marker R42 or from S J R end 1 mile S of Port.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal..locked gates)
LEVEE ROADS GOOD EXCEPT WHEN WET

WATER LOGISTICS:

Access limitations: depth, obstructions: SHALLOWS AND SNAGS

Boat Launching, Loading, Docking Stockton harbor area marina facilities have all services.
and Services Available:

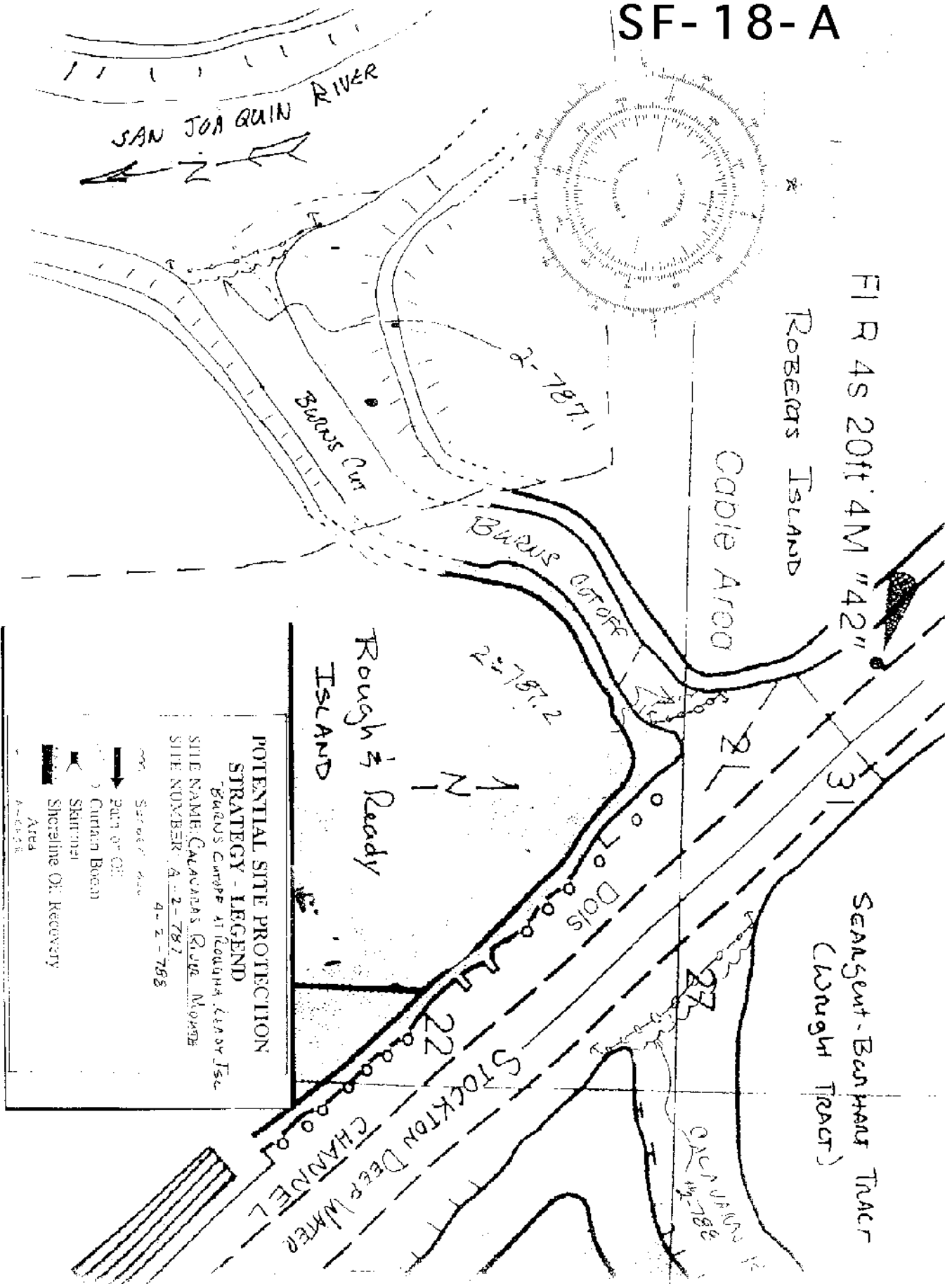
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

With Navy approval Rough and Ready Island is a secure deployment site. Adjacent levees should be adequate as long as roads are passable. Otherwise transport material by skiff.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-18-A



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San Joaquin River, Stockton to Lathrop Reach - Site Summary

2-020 -A

County: San Joaquin
USGS: Stockton West

GRP: Latitude 37 57 N Longitude 121 20.2 W
OSPR Map: 173 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site is from intersection of San Joaquin River and Deep Water Channel at the Port of Stockton (R 48) up river to south 17 miles to I-5 at Mossdale. This channel is relatively narrow and occasionally winding. It is bordered with heavily riprapped levees, but there are occasional pockets, some quite sizable, of natural mature riparian vegetation and occasional marshes. The water supports warmwater species, and the smolts from three salmon runs migrate through this reach.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh and riparian areas found here are "A" priority at all times. Several Special Status Species are found here: Swainson's Hawk (FSC/CT) and tri-colored blackbirds (F/CSC); one rare plant.

RESOURCES AT RISK

HABITATS AT RISK:(biological habitats including time of year when most sensitive and vulnerable)

Pockets of remnant riparian forest and marsh, some quite sizeable, remain scattered along this riprapped reach. Aquatic environment supports freshwater community and is a migratory route for several salmon runs. Low dissolved oxygen can stress this community in late summer.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Special Status bird Species here are Swainson's hawk (FSC/CT) and tri-colored blackbirds (F/CSC) that nest and forage along this reach as do many other waterbirds and riparian species.

Other vertebrates include riparian and semiaquatic species such as deer, fox, raccoon, mink, muskrat, beaver, snakes, lizards, amphibians, etc. This may be habitat for western pond turtle.

This area has typical warmwater aquatic community. The remaining salmon runs of the San Joaquin Valley migrate San Joaquin salmonid stocks migrate through this reach; smolt survival in this area is key to those fish stocks.

One rare plant occurs here: Slough thistle (F/CSC). Key vegetation here are mature riparian pockets and small marshy areas.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
OEL	Alex Hildebrand	South Delta Water Agency	(209) 823-4166	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-020 -A

San Joaquin River, Stockton to Lathrop Reach - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
37 57 N

Longitude
121 20.2 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site is from intersection of San Joaquin River and Deep Water Channel at the Port of Stockton (R 48) up river to south 17 miles to I-5 at

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Beware of ship traffic and wharf equipment operations at mouth. Aerial traffic beware of power wires. Note pipeline crossings under SJR just upstream from Harbor. River has many shallows, snags and pilings.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Prime concern is to prevent oil from entering the river from the ship channel. Once oil is in this long river reach, there is concern for toxicity to fish in the river and oiling of shrub and marsh growths and, secondarily, oil getting into riprap and animal burrows. If oil originates in the reach, try to confine it to the main channel and collect it with shore side collection and skimming.

SITE STRATEGIES

Strategy 2-020.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the mouth of San Joaquin at Stockton Harbor entrance.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set 4X4+ boom from dolphin southwest of Wharf 9 diagonally across river mouth to channel side of Rough and Ready Island. Anchor to keep a long diagonal downstream. Skim (ShoreSide Skimmer) oil in San Joaquin from eddy at tip of Rough and Ready Island and oil from harbor from east side land sites near dolphin.

Strategy 2-020.2

(USCG Strategic Objective: 6)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

In the event of a spill in upstream portion, contain and collect oil. Protect side channels and vegetation pockets as necessary.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

As opportunity permits, set 4X4+ boom across river at a diagonal to drive oil to shore for collection. Skim collected oil with land-based skimmer. Protect marsh and emergent vegetation with sorbent boom as necessary.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-020.1	1500			5/15/DANFORTH	1500	0/1	SSS		1	5	regular inspection	5
2-020.2	400			4/15 lb/danforth	600	0/1	portablae & VT		1	4	regular observation	6

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site is by boat accessible from marinas within and just downstream from Stockton Harbor. Levee and wharves at mouth are accessible via surface streets off of I-5 exits north and south of harbor. Along the remainder of the site are levee roads accessible from Roberts Island via Hwy 4.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
PAVED AND UNPAVED LEVEE ROADS

WATER LOGISTICS:

Access limitations: depth, obstructions: SHALLOWER IN SJR
Boat Launching, Loading, Docking Stockton harbor area marina facilities.
and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

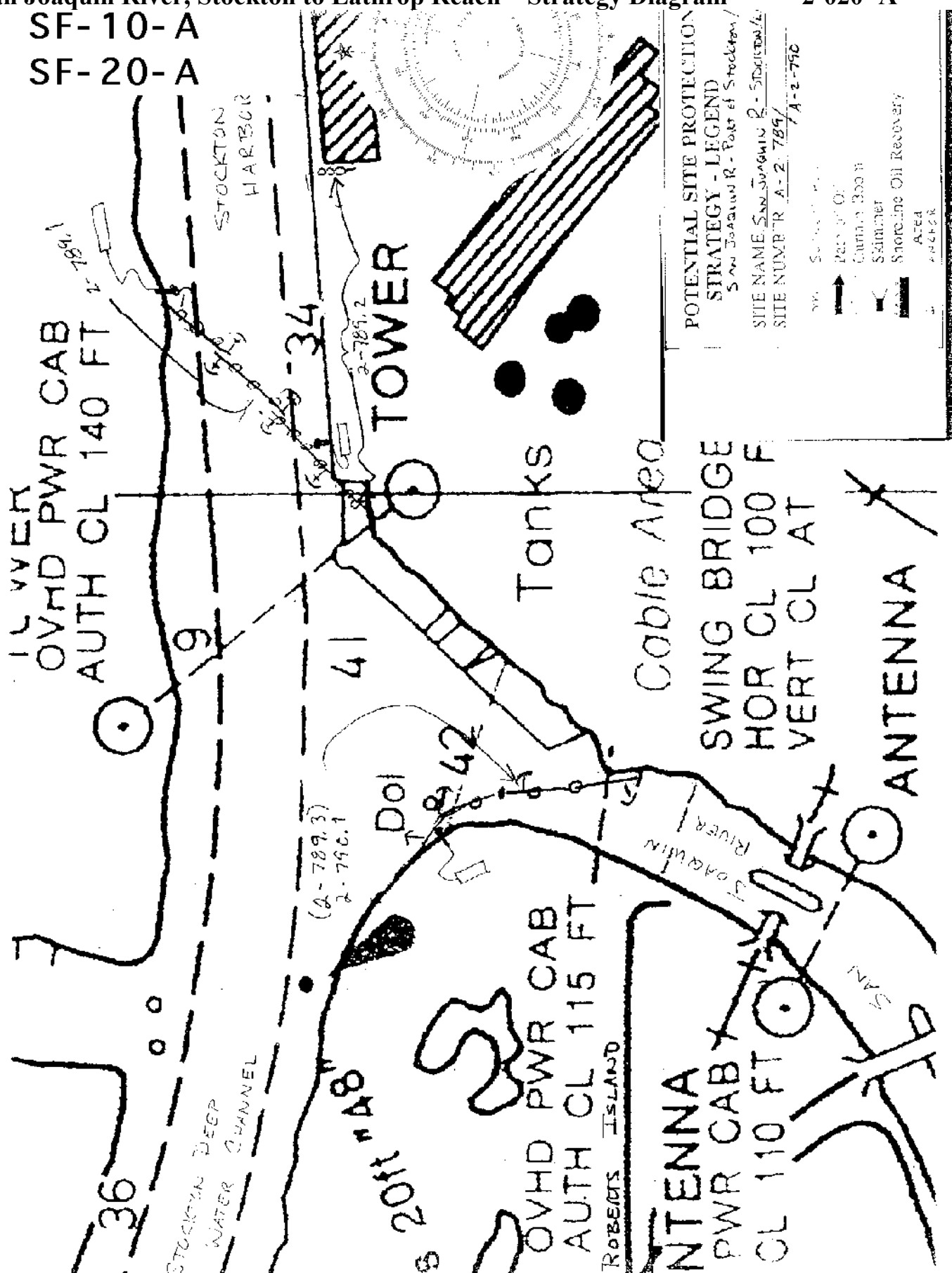
South wharves (or north levee road) is a ready deployment site with good access at mouth. Otherwise few facilities once you leave the Port area: unload from levee and/or transport material by skiff.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

2-020 -A

SF-20-A



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French Camp Slough - Site Summary

2-021 -A

County: San Joaquin
USGS: Stockton West

GRP: Latitude 37 55 N Longitude 121 19.2 W
OSPR Map: 173 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

A six mile+ dead-end slough extending from the mouth on the San Joaquin River easterly with main stem and branch, Walker Slough, to I-5 (ACP boundary). Both branches extend well east of I-5. This local is a Delta Master Recreational Plan designated Natural Resource Area with Significant Habitat Values. Habitat varies from lightly riprapped, revegetated levees to pockets of mature riparian growth and occasional berm islands. Snags, marshy/riparian margins and shallows are common in this low energy slough. It has a 2 mile branch, Walker Slough. Only about 3 of the 6+ slough miles are west of I-5.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh/riparian vegetation zones are of "A" concern year-round. Special Status Species: modest numbers of Delta smelt in winter. Modest concern for downstream migrant winter-run chinook from mid October through 31 May. Birds: Swainson's Hawk.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Primary habitat at risk is marsh-riparian at this biologically rich site. Habitat varies from light riprap to mature riparian forest. Aquatic habitat is typical warm water community.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Swainson's hawk (FSC/CT) nests here. Other species present typical riverine/riparian habitat: waterbirds, marsh and shorebirds, canopy and edge bird life, shoreline foragers and aquatic life.

High quality vegetation mix is used by deer, raccoons, muskrat, mink and other mustellids, fox and coyote, rodents and reptiles and other riverine/riparian species. Habitat may be suitable for western pond turtle.

Modest numbers of Delta smelt during winter season and downstream migrant salmon. Juvenile and adult striped bass are typical as are warm water species.

Freshwater invertebrates typical of fresher delta waters.
Emergent and rooted aquatic, marsh and riparian vegetation throughout.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

This is a cultural site. For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
OEL	Alex Hildebrand	South Delta Water Agency	(209) 823-4166	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-021 -A French Camp Slough - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
37 55 N

Longitude
121 19.2 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

A six mile+ dead-end slough extending from the mouth on the San Joaquin River easterly with main stem and branch, Walker Slough, to I-5 (ACP boundary). Both branches extend well east of I-5.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Slips, trips and falls on riprap and steep levees. Regarding boat handling, beware of shallows, snags and mud bars. Poison Oak.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Penetration into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands. Vegetation cleaning problems.

SITE STRATEGIES

Strategy 2-021.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Stop oil from entering or leaving the slough mouth: Stop oil entry on incoming tide or oil escapement if originating within slough.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set boom across slough mouth. Anchor one boom end near downstream riprap bank. Anchor upstream boom end to forested tip, leaving a trailing boom length to maintain seal during tidal vacillations. Skim at riprap closure if spill is in slough.

Strategy 2-021.2

(USCG Strategic Objective: 5,6)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

If oil is coming down river from upstream, keep oil out of slough and divert oil to opposite side of San Joaquin River to collect.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Anchor boom diagonally upstream 100'+ from mouth diagonally downstream and across the San Joaquin River to westside riprap levee (shallows). Skimming (Shore-Side Skimming) collection on west side. Be prepared to close mouth with additional boom if oil escapes. A backup deployment with equal equipment may be necessary.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-021.1	300			2/25/DANFORTH	200	0/1			possible land-based skimmer	2	occasional checks	5
2-021.2	300			2/25/DANFORTH	200	0/1	SSS		1	2	occasional check	5,6

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Levee roads border this site on north south and west. North & east levees can be reached via I-5 to Charter Way/Hwy 4 to levee via water 2 miles south of Stockton Port on the San Joaquin River.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
LEVEE NORTH IS PAVED; OTHERS ARE NOT

WATER LOGISTICS:

Access limitations: depth, obstructions: Shallow and shallower, snags
Boat Launching, Loading, Docking Stockton harbor area marina facilities.
and Services Available:

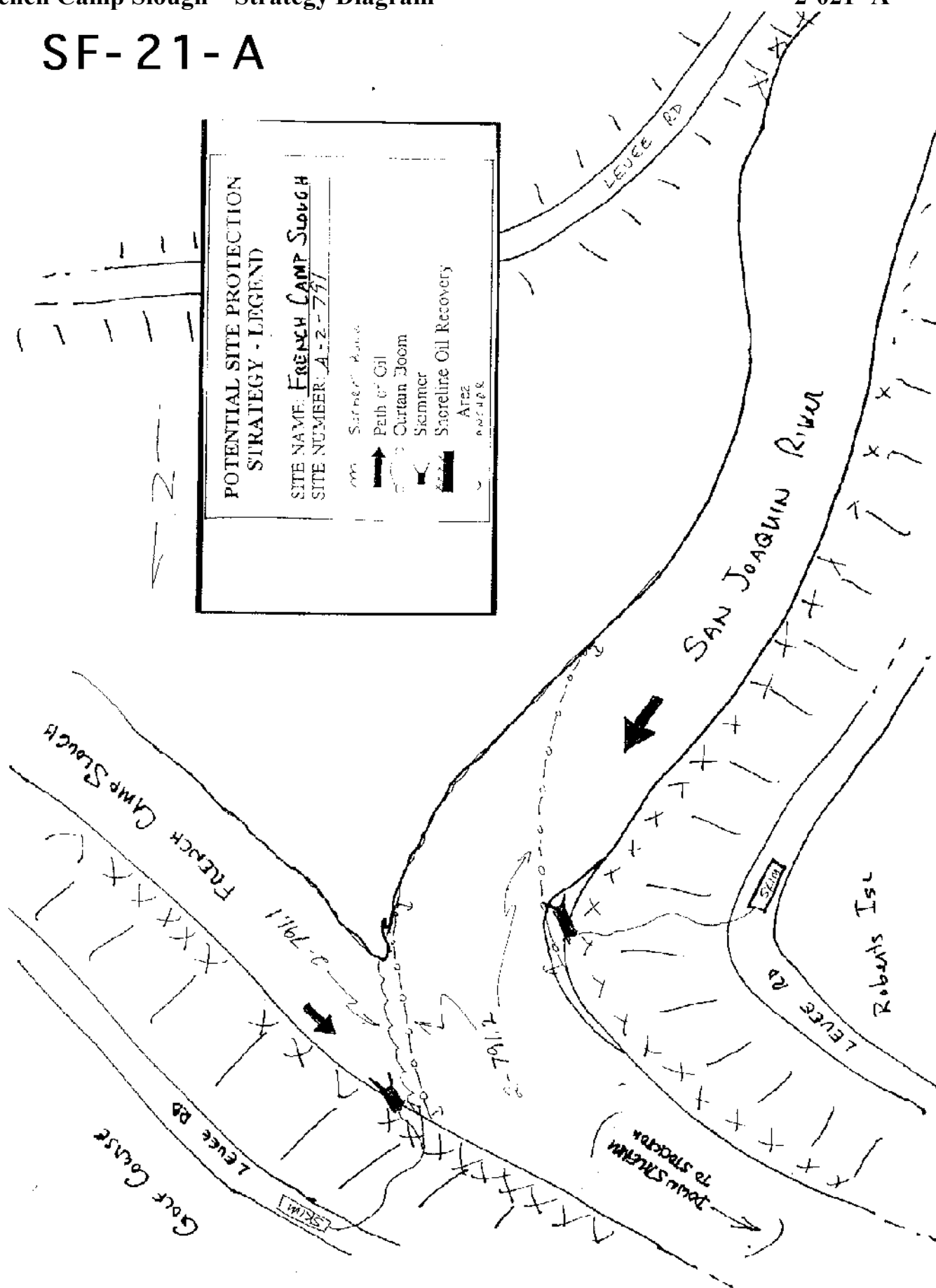
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Adjacent levees should be adequate as long as roads are passable. Otherwise transport material by skiff (2 miles).

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF- 21- A



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San Joaquin River, Roberts Island Reach - Site Summary

2-030 -A

County: San Joaquin
USGS: Holt

GRP: Latitude 37 59.7 N Longitude 121 25.7 W
OSPR Map: 170 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site is from intersection of San Joaquin River and Deep Water Channel at the Port of Stockton (R 48) to Turner Cut at Aker Island, and includes Walters Island. Adjacent sites are Calaveras River, Burns cutoff, and Fourteenmile Slough. This section of the Stockton Deep Water Channel is heavily riprapped and modified. Some mature trees and pockets of emergent vegetation line the edges. Walters Island remains in a more natural condition with emergent marsh and riparian shrub scrub.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marshy areas like Walters Island are "A" priority at all times. Special Status Species include: Delta smelt (F/CT) in modest numbers during fall/winter; Swainson's hawk (FSC/CT) and burrowing owl (CSC).

RESOURCES AT RISK

HABITATS AT RISK:(biological habitats including time of year when most sensitive and vulnerable)

The habitat on Walters Island is natural marsh to riparian. Aquatic environment supports freshwater community. Low dissolved oxygen can stress this community in late summer. Most of the channel length is riprap and supports life which can utilize extremely disturbed areas.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Walters Island supports a rich diversity of bird life. Swainson's hawk (FSC/CT) and burrowing owl (CSC) nest and forage north of and along the harbor.

During fall/winter Delta smelt (F/CT) occur in modest numbers. Juvenile and adult striped bass are typical as are warm water species.

Freshwater invertebrates are those typical of low salinity delta waters.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-030 -A

San Joaquin River, Roberts Island Reach - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
37 59.7 N

Longitude
121 25.7 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site is from intersection of San Joaquin River and Deep Water Channel at the Port of Stockton (R 48) to Turner Cut at Aker Island, and includes Walters Island. Adjacent sites are Calaveras River, Burns cutoff, and Fourteenmile Slough.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Waters are deep draft except in margins and side channels of SJ River. Aerial traffic beware of power wires.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Oil issues are penetration and cleanup of marshy vegetation, riprap, pilings and collection behind seawalls and under wharves.

SITE STRATEGIES

Strategy 2-030.1

(USCG Strategic Objective: 8)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Stop oiling of marshy margins of Walters Island by excluding oil from backside channel and cover Deep Water frontage with sorbent.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set two exclusion booms. One at each end of Island. 800 ft at east end and 1200 at west across backside slough opening. Anchor near riprap levee and with long Island overlap on Channel side. Leave a trailing boom length to maintain seal during tidal vacillations.

Put sorbent across remainder of exposed channel side. Wind wash can be a problem here.

Strategy 2-030.2

(USCG Strategic Objective: 5,6)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Halt oil movement up/down Stockton Channel by diverting oil to shore for pickup.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set 1200' 8X8+ boom in a long diagonal boom across the Stockton Deep Water Channel from light G27 to natural collection "point" on Roberts Island (best access). Depending on prevailing conditions and oil movement Rindge Tract may be alternate skim site.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers -No	special equip	deploy personnel	tending personnel	SO
2-030.1	2000			9/25/DANFORTH	3000	2/1			9	regular inspection	8
2-030.2	1200			6/25lb/danforth		1/1	portable & VT	1	4 + 5 SHORE	close inspection	5,6

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site by boat accessible is from Windmill Cove Marina and marinas at Stockton Harbor. Excellent access from Roberts Island (to south) from Hwy 4. Also access from private levee roads on Rindge Tract and Wright Tract from I-5 via 8-mile Road and March Lane.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
ROADS:PAVED SOUTH, SEASONAL NORTH SIDE

WATER LOGISTICS:

Access limitations: depth, obstructions: deep draft, except near shore

Boat Launching, Loading, Docking A full range of marine facilities are at Stockton harbor. Windmill Cove Resort on Roberts Island
and Services Available: on south side of site has fuel, launch and docks.

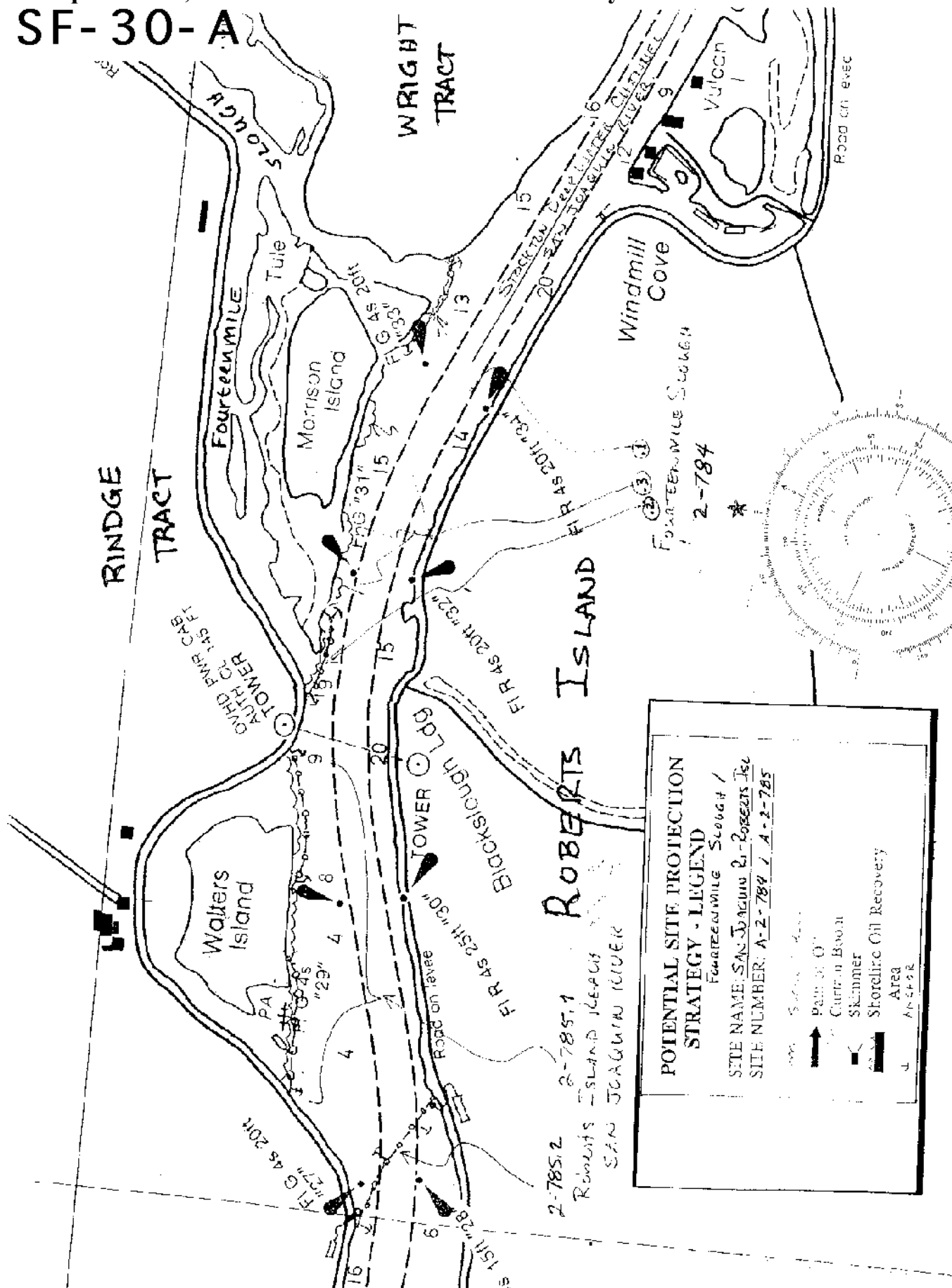
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Good major deployment site on Roberts Island at light R 32 (mouth of Turner Cut): Dock and crane available. Deployment from near side Rindge Tract levee is also possible.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-30-A



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Fourteenmile Slough - Site Summary

2-033 -A

County: San Joaquin
USGS: Stockton West, Holt

GRP: **Latitude** 38 00 N **Longitude** 121 25 W
OSPR Map: 173 **Last ACP Update** 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

From Morrison Island (at G 31 & 33) on the Stockton Deep Water Channel, the site extends 4 miles northeasterly to a split. One channel continues east and south 6 miles to I-5, the other northerly 6 miles to junction with Disappointment Slough. The first three miles are DMRP designated Natural Resource Area with Significant Habitat Values and a Significant Natural Area (CDFG-NHD). The Slough is laced with channels between natural marshy berm and channel islands including Morrison Island at the mouth. Levee banks are riprapped and pocketed with emergent marshy/riparian growth. The upper Slough is less luxuriant.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh and riparian vegetation zones are of "A" concern year-round. Special Status Species are present: During Nov- Dec, modest numbers of Delta smelt (F/CT); winter-run chinook (F/CE) are a modest concern from mid Oct 15- May; two rare plants.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Extensive and ecologically rich marshy margins, islands and riparian growths. Diversified aquatic community including T/E species and migrant fish.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Bird life are typical marshy and riparian species including: waterbirds and marsh birds.
Other vertebrates are typical riverine and semiaquatic species. This may be habitat for western pond turtle.
During fall/winter Delta Smelt (F/CT) have a modest presence. Juvenile and adult striped bass are typical as are warm water species.
Rare plants include: California Hibiscus and Mason's lilaeopsis.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-033 -A Fourteenmile Slough - Site Strategy

County: San Joaquin CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER Latitude 38 00 N Longitude 121 25 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

From Morrison Island (at G 31 & 33) on the Stockton Deep Water Channel, the site extends 4 miles northeasterly to a split. One channel continues east and south 6 miles to I-5, the other northerly 6 miles to junction with Disappointment Slough.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of high wires. Poison Oak. Slips trips and falls on levee riprap.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Concern is to stop oil from moving from the channels to the many marshy islands in Fourteenmile Slough, because this would permit oil penetration into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands. Cleanup will be very difficult here.

SITE STRATEGIES

Strategy 2-033.1

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the Slough River mouth at east end of Morrison Island at light G33.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set boom across east slough mouth. Anchor one boom end near upstream riprap levee. Anchor other end to Morrison Island near channel marker G 33. Back with sorbent, leaving a trailing boom length for a tidal seal. Wind wash can be a problem here.

Strategy 2-033.2

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering/leaving slough mouth at west end of Morrison Island G 31.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Anchor one end of 8X8 boom at Rindge Tract levee and other lapping well onto Stockton Channel face well up from Morrison Island tip. Leave trailing boom ends for tidal seal.

Strategy 2-033.3

(USCG Strategic Objective: 8) Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Minimize oil of emergent vegetation on Morrison Island.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Place sorbent boom around patches of emergent vegetation along the sandy beaches on the channel side of Morrison Island.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-033.1	600			5/15/DANFORTH	500	1/1				5	occasional checks	5
2-033.2	500			3/15lb/danforth		1/1				5	occasional checks	5
2-033.3					500	0/1				2	as above	8

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site is by boat accessible from Stockton Deep Water Channel at markers G 31 and 33. Private levee roads are accessible on west (Rindge tract) via I-5 to 8-mile Road to Rio Blanco Rd and east from surface streets off of I-5 (March Lane exit, SW to Brookside

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
LEVEE ROADS good unless wet

WATER LOGISTICS:

Access limitations: depth, obstructions: depth problems only near shore

Boat Launching, Loading, Docking Boat launch and rental boats just across channel at Windmill Cove Resort. Stockton harbor has
and Services Available: all manner of marina facilities.

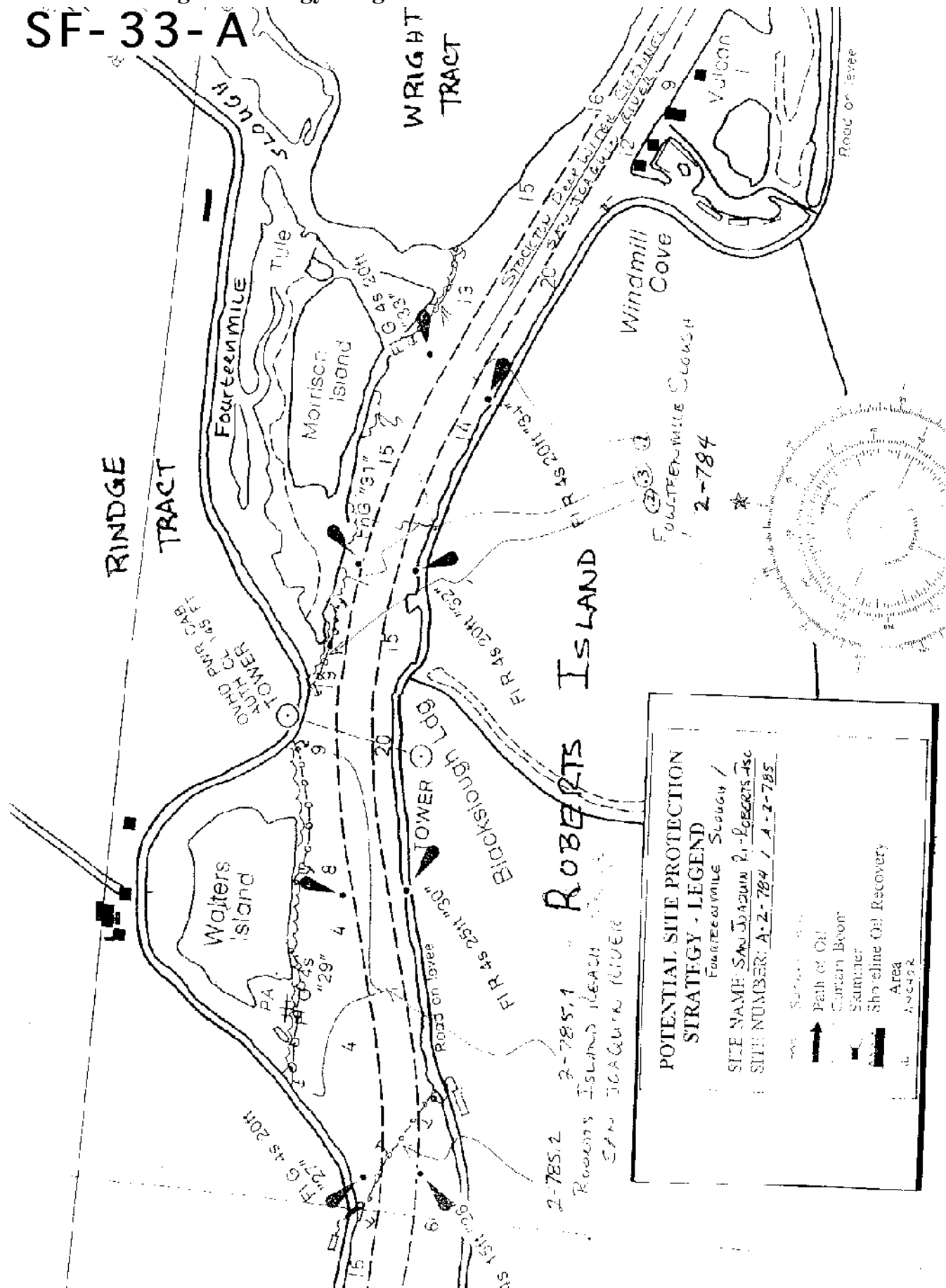
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Deployment possible from nearby levees. Also from Windmill Cove Resort. Consider using the tip of Roberts Island at Turner Cut/Acker Island as a major deployment site for this section of the Channel. Stockton Port has all manner of support facilities.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-33-A



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San Joaquin River, Hog Island Cut Complex - Site Summary

2-040 -A

County: San Joaquin
USGS: Holt

GRP: Latitude 38 00 N Longitude 121 27 W
OSPR Map: 170 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site is an island complex along the Deep Water Channel from light R18 to light R24. These include Hog, Spud, Acker and many small channel and berm Islands. This area has been designated as a Significant Natural Area (DFG-NHD) and a Natural Resource Area with Significant Habitat Values (Delta Master Recreational Plan). Though some parts of the islands are partially developed, most are in very natural states varying from marsh to shrub scrub to riparian. The channels bordering agricultural islands have heavily riprapped levees.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Rich marsh and riparian areas here have "A" priority all year. Special Status Species occur here: Delta smelt (F/CT) and winter-run chinook (F/CE) occur in modest numbers in fall to spring; rare plants.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

The islands here are very natural, varying from marshy to upland riparian. Some of the islands have flooded interiors with channels communicating with the river. Aquatic environment supports diverse freshwater community.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

This is extremely diverse and valuable bird habitat. Other vertebrates include riverine and marsh species of all kinds. Western pond turtle (F/CSC) occurs here. This area has modest occurrence of Delta smelt during fall/winter and a moderate density of winter-run chinook smolts from mid Oct to June. Juvenile and adult striped bass are typical as are warm water species. Rare plants are found throughout this site. These include California hibiscus, Mason's lilaeopsis, and Suisun marsh aster.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-040 -A San Joaquin River, Hog Island Cut Complex - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
38 00 N

Longitude
121 27 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site is an island complex along the Deep Water Channel from light R18 to light R24. These include Hog, Spud, Acker and many small

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Waters are deep draft except in channel on backside of Hog Island. Aerial traffic beware of power wires.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

The major Concern here is to prevent/minimize oiling of marshes and vegetation of the many small islands here. The strategies are designed to close side channels, block oil movement, and direct oil to collection. and penetration into burrows and riprap. Responders should try to minimize trampling vegetation and trampling oil into sediments.

SITE STRATEGIES

Strategy 2-040.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Part 1, NORTHSIDE: Exclude oil from backside of north Hog Island setting boom at each end of backside channel.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set two exclusion booms. One at each end of Island. 200 ft at east end and 600 at west across backside slough opening. 1000 ft from Hog to island to west and a second 1200 stretch from there to Rindge Tract levee. Sorbent or swamp boom west marsh of westerly island. Anchor near riprap levee leaving a trailing boom length to maintain seal during tidal vacillations. Possible skim at east

Strategy 2-040.2

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Part 2, SOUTH: Exclude oil from 21 mile slough (south margin of Spud Island) by exclusion booming each end.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set 600 ft of boom from Spud Island to Lost Island Resort. Set 1000 ft of boom from McDonald Island levee to west tip of Spud Island. Leave trailing ends to keep seal during tidal seal. Sorbent boom blocks across small channels admitting to interior marsh of Spud

Strategy 2-040.3

(USCG Strategic Objective: 5,6)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Part 3: Exclude/Collect - If oil is west of site and moving easterly, divert oil to levee bank for collection as wind and currents permit.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set 2000 ft of ocean boom across channel at a long diagonal from opposite and upstream of light 18 to pocket eddy on south side of Channel. Set up skimming at levee offering collection (typically the McDonald Island levee). Wind wave wash is a problem here.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-040.1	3000			10/25/ & 5/15/DANFORTH	3000				possible land skimming	4	Close inspection	5
2-040.2	1600			8/25/danforth	200					4	Close inspection	5
2-040.3	2000			14/40lbs/danforths		3/0	portable & VT	1		9	Close observation	5,6

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site (lights R18- R24) is by boat accessible from Windmill Cove Marina and or other central & east delta marinas. Vehicle access from Roberts Island (to south) from Hwy 4. Also access from private levee roads on Rindge Tract from I-5 via 8-mile Road.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal..locked gates)
ROADS:PAVED SOUTH, SEASONAL ON NORTH

WATER LOGISTICS:

Access limitations: depth, obstructions: deep draft, except near shore

Boat Launching, Loading, Docking Windmill Cove Resort on Roberts Island on south side of site. Stockton harbor area marina and Services Available: facilities.

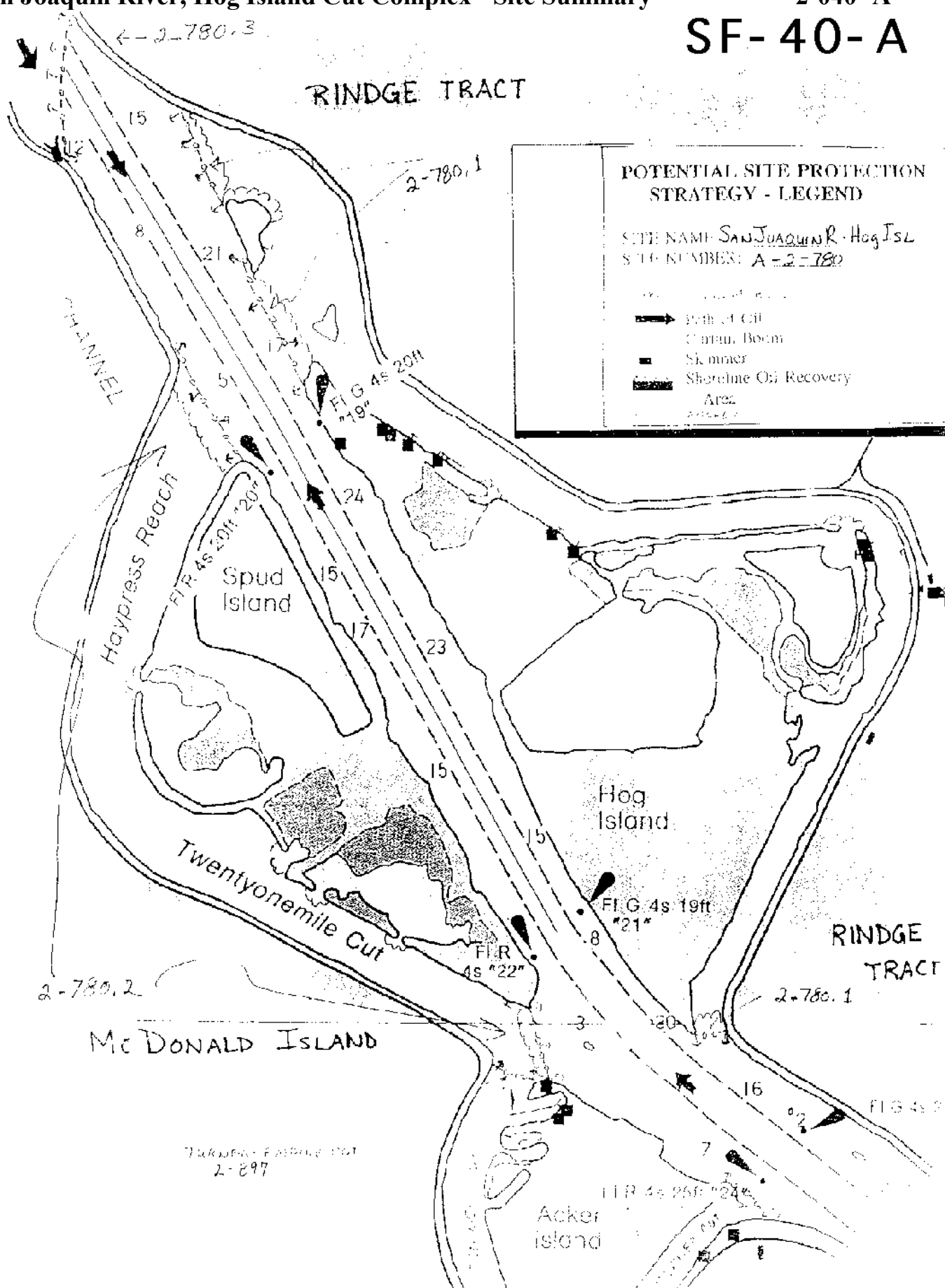
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Good staging site on Roberts Island to southeast at light R 32. Deployment from near side Rindge Tract and McDonald Island levees is also possible.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-40-A



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Disappointment Slough - Site Summary

2-045 -A

County: San Joaquin
USGS: Holt

GRP: Latitude 38 02.4 N Longitude 121 28.9 W
OSPR Map: 170 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

This site extends about 7 miles from its mouth behind north Fern Island (north of Ward Cut) easterly to I-5, and includes the side channels Honker and Bishop Cuts. Throughout its length, it is laced with cross channels between its many marshy berm and channel islands. These islands are ecologically rich and covered with shrub-scrub and emergent vegetation. At the upper end near I-5 are several acres of mature riparian growth. Levee banks are riprapped with pockets of emergent marshy/riparian growth. The Slough is a Delta Master Recreation Plan designated Natural Resource Area with Significant Habitat Values.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh and riparian vegetation zones here are of "A" concern year-round. Special Status Species here include: winter-run chinook (F/CE) are a considerable concern from Oct 15- May 31; Swainson's hawk (FSC/CT); several rare plants occur here.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Ecologically sensitive and valuable marshy islands, margins and riparian growths are found throughout the length of this site. The water supports the typical diversified Delta aquatic community.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

The Swainson's hawk (FSC/CT) occurs in this area. Site is rich in bird life typical of marshy and riparian species including waterfowl and marsh birds.

Other vertebrates are typical riverine species. Western pond turtle (F/CSC) occurs here.

Juvenile winter-run chinook can be of some concern here. Juvenile and adult striped bass are typical as are warm water species.

In addition to the rich marshy, shrub-scrub, and riparian growths on islands and margins, rare plants occur here including California hibiscus, Suisun marsh aster and Mason's lilaeopsis.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-045 -A Disappointment Slough - Site Strategy

County: San Joaquin CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER Latitude 38 02.4 N 121 28.9 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

This site extends about 7 miles from its mouth behind north Fern Island (north of Ward Cut) easterly to I-5, and includes the side channels Honker and Bishop Cuts.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of high wires. Poison Oak. Slips trips and falls on levee riprap. Beware of shallows and snags in side channels.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Concern here is the protecting the many marshy channel islands and sensitive plants found there from oiling. The strategies are designed to keep oil from entering this channel by exclusion/collection booming. Responders should beware that sensitive plants are common here, and should avoid trampling vegetation. Also avoid tramping oil into sediments.

SITE STRATEGIES

Strategy 2-045.1

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the slough mouth at west end (near the Ship Channel).

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set booms across channels at slough mouth. Anchor one boom end near west side riprap levee (Empire Tract) 800 ft across the slough on an upstream diagonal to the tip of Fern Island. Anchor a second boom length from Fern Island to mid-channel berm island and then on to the tip of Rindge Tract (500ft). Leave trailing boom lengths for a tidal seal. Back with sorbent boom.

Strategy 2-045.2

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving Slough via Honker Cut and Bishop Cut.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Honker Cut: At the intersection of Honker Cut and Disappointment Slough anchor one end of 4X4+ boom (200) at King Island levee and the other at Empire Tract, leaving trailing boom ends for tidal seal. This strategy can be deployed nearer 8 Mile Road if circumstances are favorable. Site may be appropriate for Shore-Side Skimming.

Bishop Cut: At the intersection of Bishop Cut and Disappointment Slough anchor one end of 4X4 boom (200) at Bishop Tract levee and the other at King Island leaving trailing boom ends for tidal seal. This strategy can be deployed nearer 8 Mile Road if circumstances are favorable. Site may be appropriate for Shore-Side Skimming.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-045.1	1300			2/25 & 3/15/DANFORTH	1500					2	occasional checks	5
2-045.2		400		2/15lb/danfort4		0/1				2	occasional checks	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to deployment is by boat. Site is water accessible from Stockton Deep Water Channel north at G 14 and from marinas on adjacent islands. Key land access is from private levee roads Rindge and Empire Tracts via 8-mile Rd from I-5.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal..locked gates)
LEVEE ROADS good unless wet

WATER LOGISTICS:

Access limitations: depth, obstructions: depth problems only near shore
Boat Launching, Loading, Docking Marina service and boat launch are available at Herman & Helen's at end of 8-mile Rd, Paradise
and Services Available: Point Marina at Bishop Cut, and also at Honker Cut.

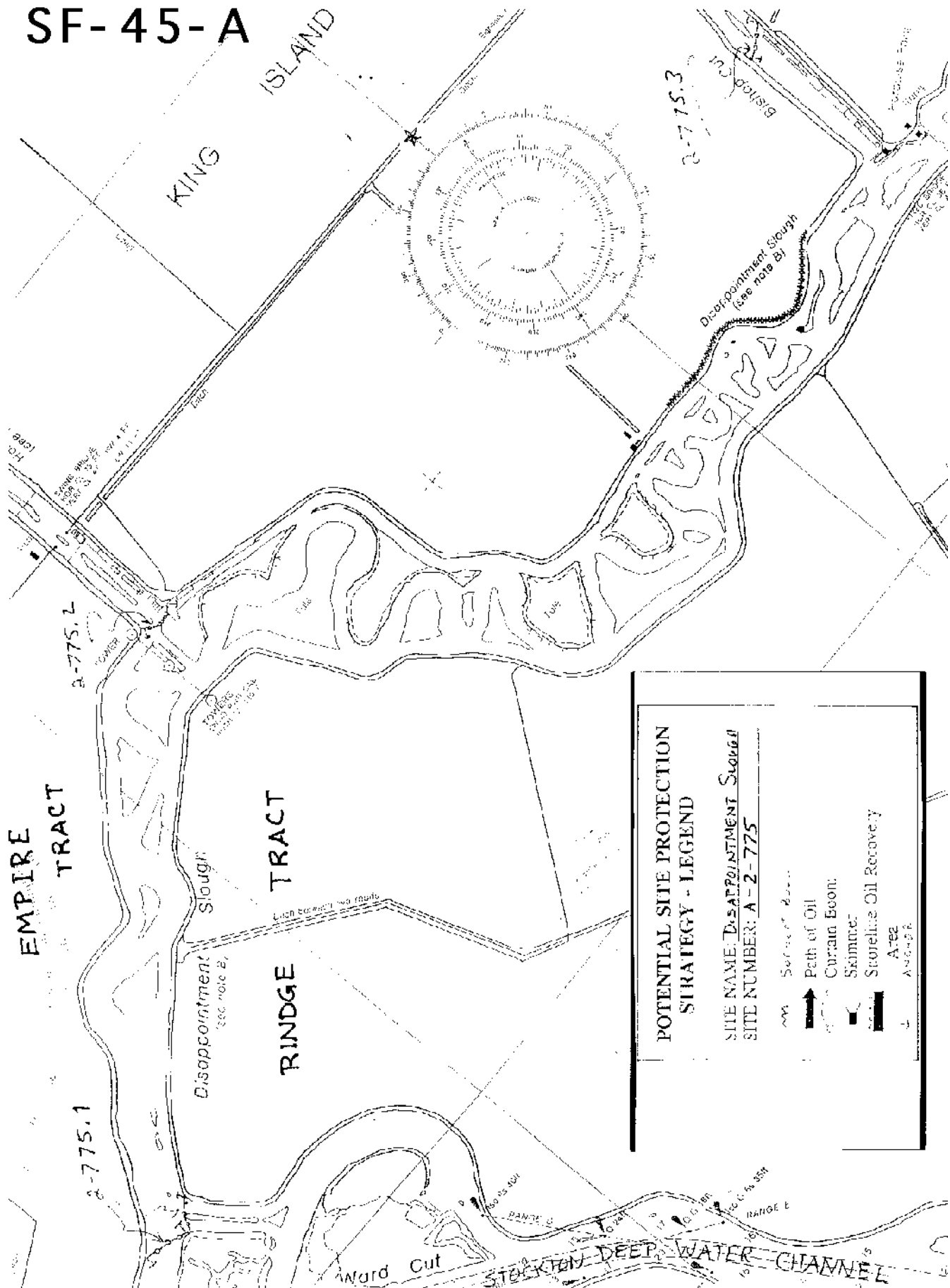
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Deployment possible from nearby levees. Also from nearby marinas consider using the end of 8-mile Rd as a major deployment site for this section of the Delta. Rental boats, restaurants, water, power, gas, marine repair and some camping is available at nearby marina/resorts.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-45-A



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San Joaquin River, Ward Cut Islands Complex - Site Summary 2-050 -A

County: San Joaquin
USGS: Holt

GRP: Latitude 38 02.3 N Longitude 121 29.4 W
OSPR Map: 170 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site is an island complex along the Deep Water Channel from light R8 to light R16. These include Tinsley, Ward, Headreach, Fern, Little Venice Islands and many small unnamed channel and berm islands. This is a DMRP designated Natural Resource Area with Significant Habitat Values. Though some parts of the islands are partially developed, most are in very natural states varying from marsh to shrub scrub to riparian. The channels bordering agricultural islands have heavily riprapped levees.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Rich marsh and riparian areas here have "A" priority all year. Special Status Species occur here: Delta smelt (F/CT) and winter run chinook (F/CE) occur in modest numbers in fall to spring; rare plants.

RESOURCES AT RISK

HABITATS AT RISK:(biological habitats including time of year when most sensitive and vulnerable)

The islands here are very natural, varying from marshy to upland riparian. Some of the islands have flooded interiors with channels communicating with the river. Aquatic environment supports diverse freshwater community.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

This is extremely diverse and valuable bird habitat. The black rail (F/CT) occurs here. Other vertebrates include riverine and marsh species of all kinds. Western pond turtle (F/CSC) occurs here. This area has modest occurrence of Delta smelt during fall/winter and a moderate density of winter-run chinook smolts from mid Oct to June. Juvenile and adult striped bass are typical as are warm water species. Valley elderberry long horn beetle (FT) has been found here. Rare plants are found throughout this site. These include California hibiscus, Mason's lilaeopsis, and Suisun marsh aster.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

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OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-050 -A San Joaquin River, Ward Cut Islands Complex - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
38 02.3 N

Longitude
121 29.4 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site is an island complex along the Deep Water Channel from light R8 to light R16. These include Tinsley, Ward, Headreach, Fern, Little

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Waters are deep draft except in narrow channels between islands, beware of snags and pilings in the shallows. Aerial traffic beware of power wires. Slips, trips and falls.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

The major oil issues here are oiling of vegetation and marshes and penetration into burrows and riprap.

SITE STRATEGIES

Strategy 2-050.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995

Objective or Prevention Condition

Part 1: Exclude/contain oil from movement into or out of east end of site (light R16) and divert oil to shore for collection.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set 12X12 exclusion/diversion booms across the main channel at a diagonal. Deploy to favor collection of oil on the Rindge Tract shore if possible. Be prepared to execute secondary booming on the three channels at the east end if the primary boom is not adequate: 300' of 8X8 boom from Rindge Tract levee to opposite isle tip on north side. Set a second 300' boom from McDonald Isl to Tule Isl. Anchor near shore leaving a trailing boom length to maintain seal during tidal vascillations. Back with sorbent. Shoreside skimming from Rindge Tract (or McDonald Isl).

Strategy 2-050.2

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995

Objective or Prevention Condition

Part 2: Exclude/divert oil entering/leaving west end of site. Wind waves are typically a problem here.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

At R6 set 1200 ft of 12X12+ boom in a long diagonal to divert oil to shore for land-side collection. Favor land-based skim/collect oil at the Venice Isl levee if wind and oil movement permit. Anchor near shore leaving a trailing length for shore seal. Back with sorbent.

Strategy 2-050.3

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995

Objective or Prevention Condition

Part 3: Sorbent and exclusion boom included islands as necessary.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

boom various sites, small sloughs, and marsh fronts as indicated in the strategy diagrams. Execute adjacent site strategies.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-050.1	1600			2/25/ & 1/50/ & 2/15/DANFORTH	2000	2/1	portable & VT		1	8	Close inspection	5
2-050.2	1200			4/25/ & 1/50/danforth	1200	2/1				8	Close inspection	5
2-050.3		4000		14/15lbs/danforths.	4000	0/2				4	Close observation	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site (lights R8- R16) is by boat accessible from Herman & Helen's Marina or other central & east delta marinas. Vehicle access is from bordering levees: only Empire Tract is easily accessible via 8-mile Road from I-5.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal..locked gates)
ROADS SEASONAL

WATER LOGISTICS:

Access limitations: depth, obstructions: deep draft, except near shore

Boat Launching, Loading, Docking and Services Available: Nearest marine facilities, fuel and launch are at Herman & Hellens at the end of 8-mile Rd.

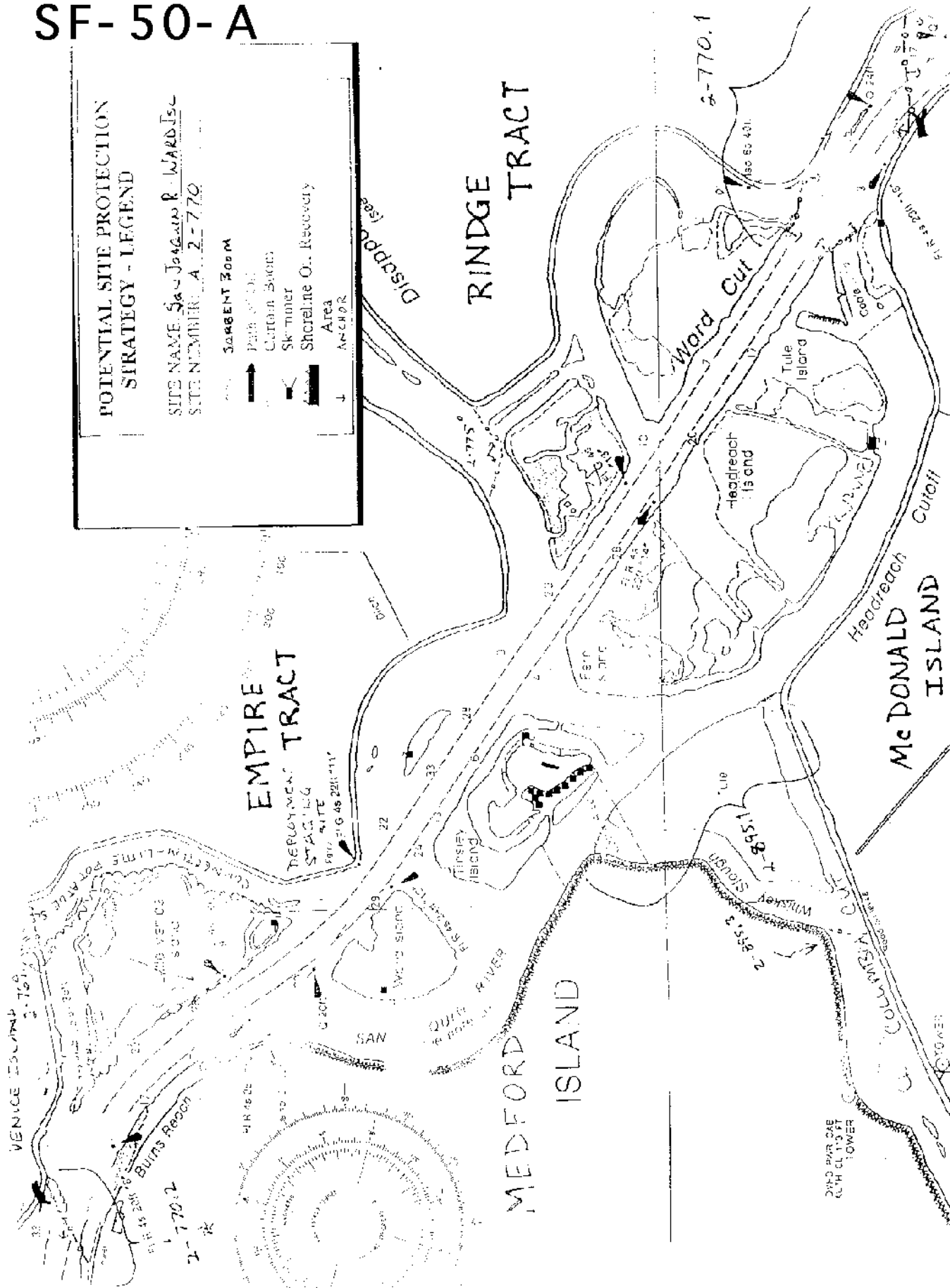
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Good deployment staging site at tip of Empire Tract on San Joaquin R. Facilities on Empire Tract include rental boats and houseboats, fuel, moorage, restaurant, electricity and water, marine supply and repair and some camping.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF- 50- A



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San Joaquin River, Mandeville/Venice Tips Complex - Site

2-060 -A

County: San Joaquin
USGS: Bouldin Island

GRP: Latitude 38 03.5 N Longitude 121 32 W
OSPR Map: 169 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

Site is island tips separated from main islands by construction of the Deep Water Channel from light R6 to light R58. These include Mandeville Tip and Venice Tip and the many small unnamed channel and berm islands and surrounding channels. This is a DMRP designated Natural Resource Area with Significant Habitat Values. In addition to the very rich natural habitat varying from marsh to shrub scrub to riparian, there is a heron rookery here. These triangular shaped tips were once part of adjacent islands but are now flooded to varying degrees and partially enclosed with historic levees. Each have marshy margins both inside and out and small associated islands. The portions facing the channel are unleveed. The neighboring agricultural islands have heavily ripped levees.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Rich marsh and riparian areas here have "A" priority all year. Special Status Species occur here: Delta smelt (F/CT) and winter-run chinook (F/CE) occur in modest numbers in fall to spring; rare plants.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

The islands here are very natural, varying from marshy to upland riparian. There is a heron rookery here. The tips have flooded interiors with channels communicating with the river. The marshy shoreline exposure is extensive. Aquatic environment supports diverse freshwater community. Protection problems because of extensive exposure and difficulties presented by expansive surrounding waters.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

This is extremely diverse and valuable bird habitat. There is a great blue heron rookery in the trees of Venice Tip. The black rail (F/CT) and Swainson's hawk (FSC/CT) occur in this area.

Other vertebrates include riverine and marsh species of all kinds. This is probably habitat for western pond turtle (F/CSC).

This area has modest occurrence of Delta smelt during fall/winter and a moderate density of winter-run chinook smolts from mid Oct to June. Juvenile and adult striped bass are typical as are warm water species.

Rare plants are found all through this site. These include California hibiscus, Mason's lilaeopsis, and Suisun marsh aster.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	

2-060 -A San Joaquin River, Mandeville/Venice Tips Complex - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
38 03.5 N

Longitude
121 32 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

Site is island tips separated from main islands by construction of the Deep Water Channel from light R6 to light R58. These include

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Waters are deep draft except in narrow channels between islands, beware of snags and pilings in the shallows. Aerial traffic beware of power wires. Slips, trips and falls.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

The major oil issues here are oiling of vegetation and marshes and penetration into burrows and riprap.

SITE STRATEGIES

Strategy 2-060.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Part 2: Oil threats at west end of site (R58): Exclude/divert oil entering/leaving west end of site.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

At G57 set 2000 ft of 12X12+ boom in a diagonal across the river and upstream (east) (if oil is moving from west). Land based skim/collect oil at the Mandeville (and possibly the Venice) Isl levee. Anchor near shore, leaving a trailing length for shore seal. Back with sorbent. Reverse if oil is moving from east. Wind waves are a problem.

Strategy 2-060.2

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Part 3: Protect open exposure to channel and shore line openings of each tip to stop oil from entering interiors.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Deploy 4X4+ across each SJR Channel face: 4000' at Venice tip and 2500' at Mandeville. Back with sorbent. Block small sloughs, and perimeter marsh edges with 4X4 and sorbents.

Strategy 2-060.3

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Part 1: For oil threats into/out of east end of site (R6) using Ward Cut and Middle River Strategies

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Execute adjacent site strategies: See strategy for Ward Cut Complex (2-050.2) and strategy for Middle River Mouth - (2-950.1)

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-060.1	2000			8/25/danforth	2000		3/1			8	Close inspection	5
2-060.2		8000		14/15lbs/danforths	8000		3/1			8	Close observation	5
2-060.3										SEE	Close inspection	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site is from the Ship Channel (lights R58- R6) is by boat from Herman & Helen's or Korth's Marina or other central delta marinas. Vehicle access is from bordering levees: only Empire Tract and Venice Island is easily accessible via 8-mile Road from I-5.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal..locked gates)
ROADS SEASONAL

WATER LOGISTICS:

Access limitations: depth, obstructions: deep draft, except near shore

Boat Launching, Loading, Docking and Services Available: Nearest marine facilities, fuel and launch are at Herman & Hellens at the end of 8-mile Rd and the mouth of Mokelumne to west.

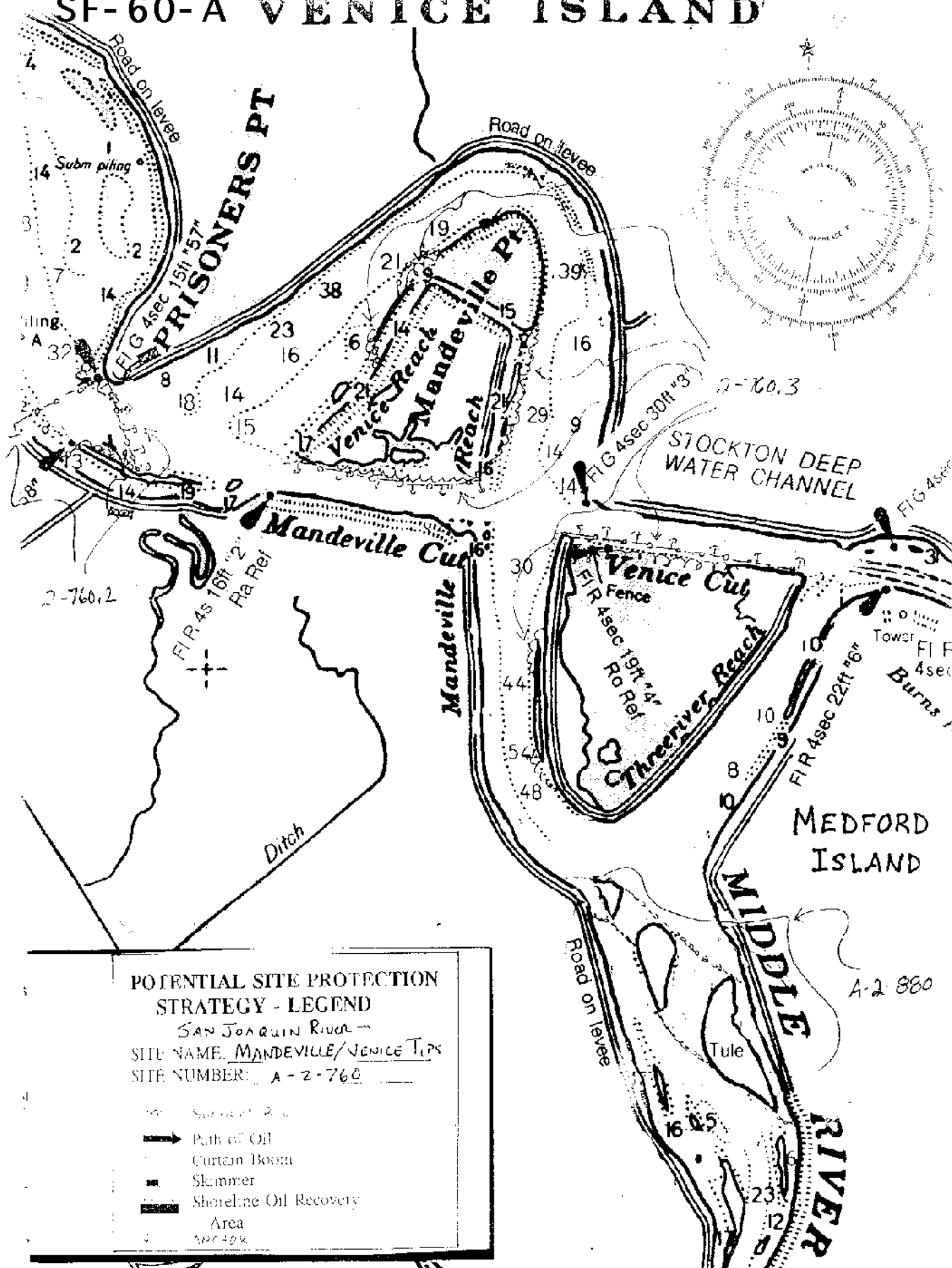
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Good deployment staging site at tip of Empire Tract on San Joaquin R. Also levees of Venice Island. Facilities on Empire Tract include rental boats and houseboats, fuel, moorage, restaurant, electricity and water, marine supply and repair and some camping.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-60-A VENICE ISLAND



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Little Potato Slough - Site Summary

2-065 -A

County: San Joaquin
USGS: Terminous

GRP: Latitude 38 03.3 N Longitude 121 30 W
OSPR Map: 170 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

This site extends about 4 miles from its mouth at the Stockton Deep Water Channel at G 11 northerly to its junction with the South Mokelumne River at Hwy 12. White and Potato Slough intersect this reach. Although most of its length the Slough is bordered with riprapped levees, it is designated a Natural Resource Area with Significant Habitat Values (DMRP). Several Special Status Species occur here, and there are several sizable channel islands and some berm islands. At the San Joaquin River end of the channel is an ecologically rich area, Little Venice Island, which is a shallow flooded island surrounded by eroding levees and natural vegetation. This lower area is very vulnerable and difficult to remediate. This water way is also an important path for south delta water export.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

Marsh and riparian vegetation here are of "A" concern year-round. Special Status Species occur here: winter-run chinook (F/CE), of considerable concern from Oct 15- May 31; the Swainson's hawk (FSC/CT); several rare plants.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

Vulnerable marshy margins, islands and riparian growths are found throughout the length of this site, especially on marshy channel islands and Little Venice Island. The diversified aquatic community is typical for the Delta.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

The black rail and Swainson's hawk (both FSC/CT) occur in this area. Site is rich in bird life typical of marshy and riparian species including waterfowl and marsh birds.

Other vertebrates are typical riverine species. Western pond turtle (F/CSC) occurs here. There are reports of giant garter snake here (F/CT).

Juvenile winter-run chinook can be of some concern here. Juvenile and adult striped bass are typical as are warm water species.

In addition to the marshy islands and margins, rare plants occur here including California hibiscus, Delta mudwort, Suisun marsh aster and Mason's lilaeopsis.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-065 -A Little Potato Slough - Site Strategy

San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
38 03.3 N

Longitude
121 30 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

This site extends about 4 miles from its mouth at the Stockton Deep Water Channel at G 11 northerly to its junction with the South Mokelumne River at Hwy 12. White and Potato Slough intersect this reach.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of high wires. Poison Oak. Slips trips and falls on levee riprap. Beware of shallows and snags in side channels.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Penetration into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands. Emergent and marsh vegetation cleaning issues.

SITE STRATEGIES

Strategy 2-065.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

At SOUTH end (near Ship Channel): Exclude oil from entering or leaving the Slough mouth. Site subject to strong wind/currents.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Set booms across slough mouth between Venice Island and Empire Tract. Anchor one boom end from near west side levee on corner of Venice Isl and the other end near east side riprap levee (Empire Tract) 1000 ft across the slough on a diagonal appropriate to divert oil to Empire shore for collection. Leave trailing boom lengths for a tidal seal. Back with sorbent boom.

Strategy 2-065.2

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

At NORTH END: Exclude oil from entering or leaving Slough at South Mokelumne River junction.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Anchor one end of 6X6 boom at the west base of old bridge abutment and anchor the other end downstream at a digonal toward Terminus shore, leaving trailing boom ends for tidal seal. Use Terminus shore as possible skim/collection site. Back with sorbent.

Strategy 2-065.3

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

At LITTLE VENICE ISLAND (at Ship Channel) and side Sloughs: Halt oil movement into or out side channels and marshes.

Technique Details

Check here means "No strategy diagram": () Check here means "Contact CCC": ()

Execute strategies for Whites Slough (2-070) and Potato Slough (2-080). For Little Venice Island block openings from San Joaquin with 500'6X6+ exclusion boom; and also for opening from Little Connection Slough use 3000'4X4+ exclusion boom. Back with

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers -No	special equip	deploy personnel	tending personnel	SO
2-065.1	1000			4/25/DANFORTH	1000				2 PERSON/1	2	5
2-065.2		300		2/25lb/danforth	300	0/1		possible skim	2 PERSON	regular checks	5
2-065.3		3500		10/15lbs/danforth		0/1			2	as above	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to deployment is by boat. Site is water accessible from Stockton Deep Water Channel north at G 14 and from marina on adjacent islands. Land access is from private levee roads Bouldin Isl. via Hwy 12 and Empire Tract via 8-mile Rd from I-5.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
LEVEE ROADS GOOD

WATER LOGISTICS:

Access limitations: depth, obstructions: depth problems only near shore

Boat Launching, Loading, Docking Marina service and boat launch are available at Herman & Helen's at end of 8-mile Rd and at
and Services Available: Terminus on Hwy 12.

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Deployment possible from nearby levees. Also from nearby marinas Consider using the end of 8-mile Rd as a major deployment site for this section of the Delta. Rental boats, restaurants, water, power, fuel, marine repair and some camping is available at nearby

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-65-A

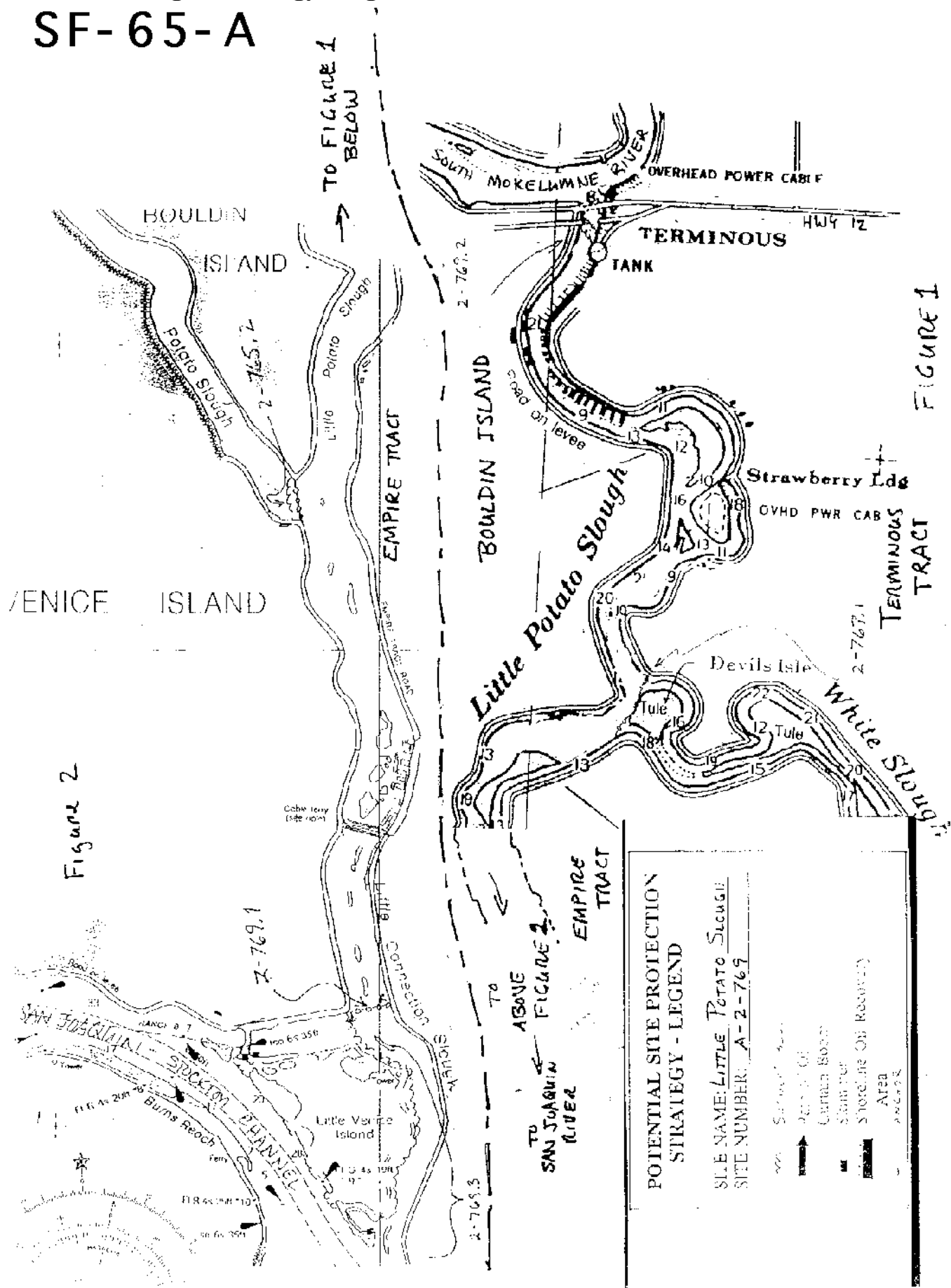


FIGURE 1

Figure 2

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Potato Slough - Site Summary

2-070 -A

County: San Joaquin
USGS: Holt

GRP: Latitude 38 05.3 N Longitude 121 34.2 W
OSPR Map: 170 Last ACP Update 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

This site begins at its mouth on Little Potato Slough two miles south of Terminous to its junction with the San Joaquin River six miles westerly. It is bordered by Bouldin Island on the north and Venice Island to the south. The Slough is Delta Master Recreational Plan designated a Natural Resource Area with Significant Habitat Value. The slough has many marshy berm and channel islands in natural condition; some are larger than an acre. Levee banks are riprapped with pockets of emergent marshy/riparian growth.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

The marshy habitat here is of "A" priority all year. Special Status Species occur here: winter-run chinook (F/CE) are a considerable concern from Oct 15- May 31; several rare plants.

RESOURCES AT RISK

HABITATS AT RISK: (biological habitats including time of year when most sensitive and vulnerable)

There are many marshy margins and islands with freshwater marsh riparian growths which support rich biota and sensitive species.

The water habitat supports a diversified aquatic community including T/E species and migrant fish.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Site is rich in bird life typical of marshy and riparian species including: waterfowl and marsh birds. Other vertebrates are typical riverine mammal and reptile species. Juvenile winter-run chinook can be of great concern here. Juvenile and adult striped bass are typical as are warm water species. Sacramento splittail and Delta smelt occur here at unpredictable levels. The rare plants which occur here include Delta tule pea, California hibiscus, Suisun marsh aster, and Mason's lilaeopsis. Luxuriant freshwater marsh and willow shrub-scrub dominate inlands.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Chris Neudeck	Mandeville, Victoria, & Union Isls Recl Dists	(290) 946-0268	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-070 -A Potato Slough - Site Strategy

County: San Joaquin CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER Latitude 38 05.3 N Longitude 121 34.2 W

SITE LOCATION: boundaries, landmarks, area to locate and delimit the site

This site begins at its mouth on Little Potato Slough two miles south of Terminous to its junction with the San Joaquin River six miles westerly. It is bordered by Bouldin Island on the north and Venice Island to the south.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of high wires. Poison Oak. Slips trips and falls on levee riprap.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Emergent and marsh vegetation damage and cleaning are the largest issues. Oil will penetrate into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands.

SITE STRATEGIES

Strategy 2-070.1

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the Slough mouth at east end on Little Potatoe.

Technique Details

Check here means " No strategy diagram": () Check here means "Contact CCC": ()

Set boom across the slough mouth. Anchor each boom end near adjacent riprap levees, leaving a trailing boom length for a tidal seal. Back with sorbent boom.

Strategy 2-070.2

(USCG Strategic Objective: 5) Dates: SISRS Approved last tested ACP date
11/06/1995 06/01/1997 07/01/1996
06/01/1997

Objective or Prevention Condition

Stop oil from entering slough at San Joaquin River by exclusion booming.

Technique Details

Check here means " No strategy diagram": () Check here means "Contact CCC": ()

The slough is wide and exposed to wave wash and strong currents so that boom must be placed upstream and diagonal away from the River. At a bend of the west side (Bouldin Isl) levee about 100 yards upstream from mouth (at PG&E transformer), anchor one end of 8X8 boom and run 1200 ft of boom upstream to anchor other end near Venice Isl levee (east side). Leave trailing boom ends for tidal seal. The pocket at the Venice shore has natural collection eddies and may be suitable for collection/skim site.

Table of Response Resources

strategy	hboom	swpbm	xboom	Anchoring	sorb	Bb/skif	skimmers	-No	special equip	deploy personnel	tending personnel	SO
2-070.1		400		4/15/DANFORTH	400	0/1				2 person/1 skiff	occasional checks	5
2-070.2	1200			2/40lb/danforth		2/1				8	2	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site by boat accessible from Stockton Deep Water Channel to the west mouth at G51 and to the east mouth up (north) Little Potato Slough at marker G11. Private levee road are accessible on north (Bouldin Isl.) from Hwy 12 and on the south (Venice Isl.) from I-5,

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal..locked gates)
LEVEE ROADS good unless wet

WATER LOGISTICS:

Access limitations: depth, obstructions: depth problems only near shore

Boat Launching, Loading, Docking Marina service is available at terminous, end of 8-mile Rd, Also at tip of Andrus Island - Korth's
and Services Available: Marina at Mokelumne half mile from west end.

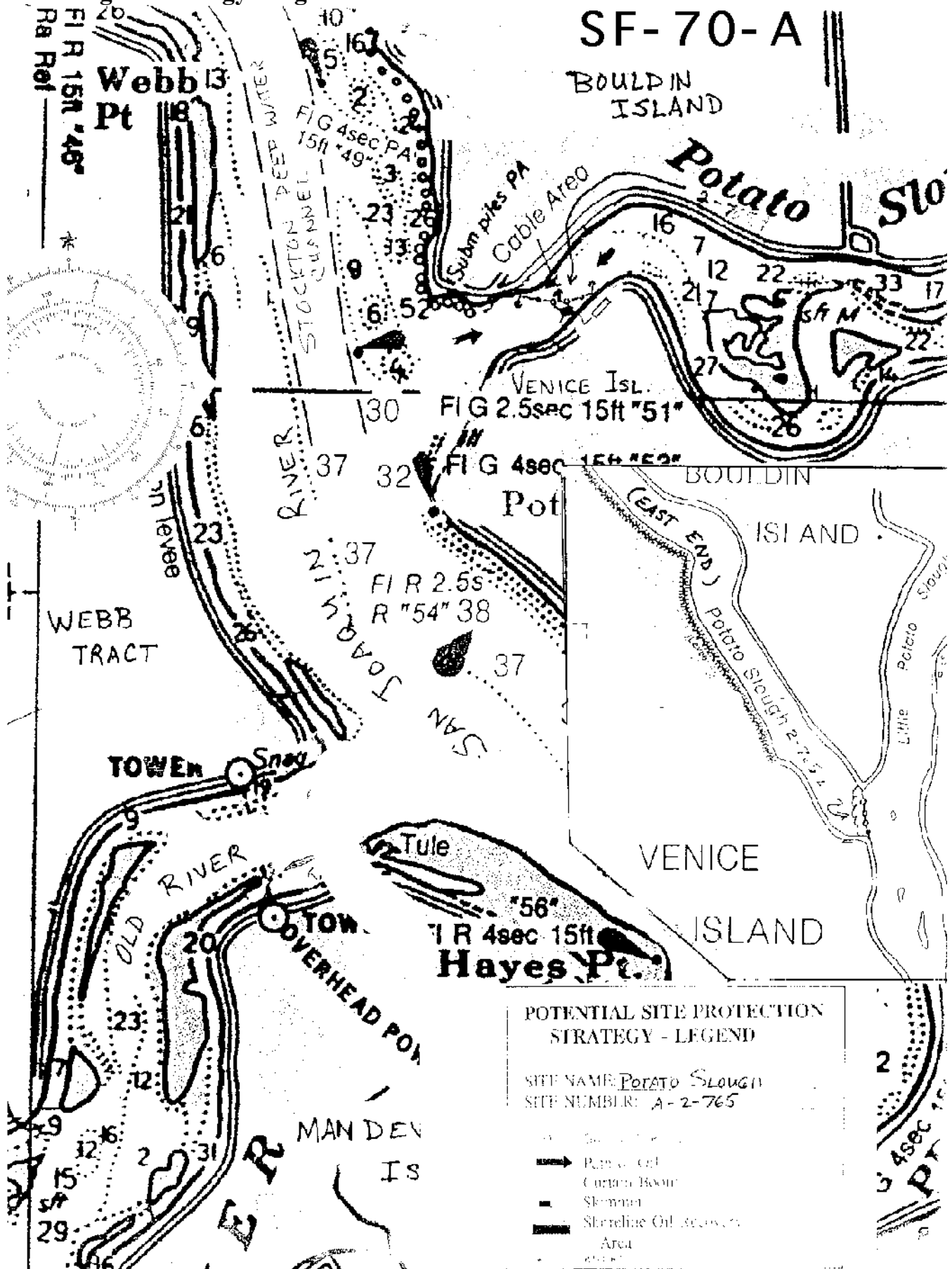
FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Deployment and support possible from nearby levees of Bouldin and Venice Isles during dry weather. Also from nearby marinas. Consider using the end of 8-mile Rd or terminous or mouth of Mokelumne as a major deployment site for this section of the Delta.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

ADDITIONAL COMMENTS

SF-70-A



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White's Slough - Site Summary

2-080 -A

County: San Joaquin
USGS: Bouldin Island

GRP: **Latitude** 38 05.6 N **Longitude** 121 29.5 W
OSPR Map: 170 **Last ACP Update** 07/01/1996

SITE DESCRIPTION: (general characterization of site - geomorphology, habitat, exposure, currents)

This site extends from its junction with Little Potato Slough two miles south of Terminous, six miles easterly to its end, and includes the side channels Telephone, Honker and Bishop Cuts. The Slough is designated a Significant Natural Area (CDFG-NHD) and also a Natural Resource Area with Significant Habitat Value in the DMRP. The Slough is laced with channels among its many berm and channel islands which remain in natural marsh/shrub -scrub condition. Levee banks are ripped but with pockets of emergent marshy/riparian growth.

SEASONAL and SPECIAL RESOURCE CONCERNS (seasonal issues, special status spp present, water intakes)

The marsh and riparian vegetation here are of "A" concern year-round. Many Special Status Species occur here: winter-run chinook (F/CE) are a considerable concern from Oct 15- May 31; the black rail (FSC/CT) and the burrowing owl (F/CSC); four species of rare plants.

RESOURCES AT RISK

HABITATS AT RISK:(biological habitats including time of year when most sensitive and vulnerable)

Extensive and ecologically rich marshy margins, islands and riparian growths. Diversified aquatic community including T/E species and migrant fish.

SPECIES/COMMUNITIES AT RISK (Brief summaries including time of year when most sensitive/vulnerable)

Site is rich in bird life typical of marshy and riparian species including: waterfowl and marsh birds. The black rail (FSC/CT) and burrowing owl (F/CSC) occur within or near this site.

Other vertebrates are typical riverine species. This may be habitat for western pond turtle (F/CSC).

Fish life are typical warm water species of the Delta. Area is a prime fishing area for black bass and striped bass. Juvenile winter-run chinook can be of great concern here.

Rare plants occurring here include California hibiscus, Suisun marsh aster, Mason's lilaeopsis, and Delta mudwort. Islands and margins are emergent marsh and shrub-scrub. Occasional riparian growth.

CULTURAL and ARCHEOLOGICAL SENSITIVITIES

For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation, Northwest Information Center, (Leigh Jordan, Sonoma State College (707-664-2494))

KEY SITE CONTACTS - type: E-ntry/access; B-iological expertise; L-ogistical; C-ultural; T-rustee; or O-ther assistance

Type	Name	Organization	Phone	FAX
BL	Kent Nelson	Ca Dept of Water Resources	(916) 227-7581	
B	Brenda Grewell	Ca Dept Water Resources	(916) 227-7520	(916) 227-7554
BT	Ed Littrell	Ca Dept. of Fish and Game	(916) 358-2924	(916) 358-2912
OEL	Dan Nomellini	Central Delta Water Agency	(209) 465-5883	
TB	Laurie Briden	Dept of Fish and Game Bay/Delta Studies	(209) 944-7800	
E	Tom Rosten	Rec Upper/Lower Jones, Terminous,	(209) 836-0829	
TB	Bob Pine	USFWS, Endangered Species	(916) 979-2752	
E	Gilbert Cosio	Webb Tract & Bacon Isl Reclamation	(916) 456-0253	

2-080 -A White's Slough - Site Strategy

County: San Joaquin

CHART: 18661 SACRAMENTO / SAN JOAQUIN RIVER

Latitude
38 05.6 N

Longitude
121 29.5 W

This site extends from its junction with Little Potato Slough two miles south of Terminous, six miles easterly to its end, and includes the side channels Telephone, Honker and Bishop Cuts.

HAZARDS and RESTRICTIONS - Air, Water & Ground - things to beware of when approaching or at site

Aerial traffic beware of high wires. Boats beware of shallows and snags at margins and terminal ends. Poison Oak. Slips trips and falls.

POTENTIAL OIL IMPACTS - CONCERNS/ ADVICE to RESPONDERS: (regarding sensitive species present, penetration into marshes

or sediments, burial, organism burrows, tidal channel spreading, watertable limitations, collateral impacts)

Penetration into marshy areas, woody cover, riprap, and animal and invertebrate burrows in levees, islands and uplands. Emergent and marsh vegetation cleaning issues.

SITE STRATEGIES

Strategy 2-080.1

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering or leaving the slough mouths at each end of Devil's Isle at the junction with Little Potatoe Slough.

Technique Details

Check here means " No strategy diagram": () Check here means "Contact CCC": ()

Set booms across both channels of slough mouth. Anchor one boom end near adjacent riprap levees. Anchor other end near Devil's Isle, the channel island in the mouth, leaving a trailing boom length for a tidal seal. (See impact note) Back with sorbent boom.

Strategy 2-080.2

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering/leaving the slough via Honker Cut.

Technique Details

Check here means " No strategy diagram": () Check here means "Contact CCC": ()

At the intersection of Honker cut and White Slough anchor one end of 4X4 boom at King Island levee and the other at Empire Tract, leaving trailing boom ends for tidal seal. This strategy can be deployed nearer 8 Mile Road if circumstances are favorable.

Strategy 2-080.3

(USCG Strategic Objective: 5)

Dates: SISRS Approved last tested ACP date
11/06/1995 07/01/1996

Objective or Prevention Condition

Exclude oil from entering/leaving White Slough via Bishop Cut.

Technique Details

Check here means " No strategy diagram": () Check here means "Contact CCC": ()

At the intersection of Bishop Cut and White Slough anchor one end of 4X4 boom at Rio Blanco levee and the other at King Island, leaving trailing boom ends for tidal seal. This strategy can be deployed nearer 8 Mile Road if circumstances are favorable.

Table of Response Resources

strategy	hboom	swpbmxboom	Anchoring	sorb	Bb/skif	skimmers -No	special equip	deploy personnel	tending personnel	SO
2-080.1	400		4/15/DANFORTH	400	0/1			SEE BELOW	occasional checks	5
2-080.2	200		2/15lb/danforth		0/1			2 PERSON/1	occasional checks	5
2-080.3	200		2/15lbs/danforth		0/1			SEE ABOVE	as above	5

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Key access to site by boat accessible is from Stockton Deep Water Channel at marker G11 or from end of 8-mile road, north up Little Potato Slough or down same from Terminous. Private levee roads are accessible on north from Hwy 12 via Correia Rd or on south from I-5, via 8-mile Rd to Correia Rd, Rio Blanco Rd, and King Isl. and Empire Tract levees.

LAND ACCESS LEVEL: (foot only, 2WD, large truck, 4WD, road limitations...seasonal...locked gates)
LEVEE ROADS good unless wet

WATER LOGISTICS:

Access limitations: depth, obstructions: depth problems only near shore

Boat Launching, Loading, Docking Marina service is available at Terminous, end of 8-mile Rd, and Disappointment Slough ends of
and Services Available: Bishop and Empire Cuts.

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Deployment is possible from nearby levees. Also from nearby marinas. Consider using the end of 8-mile Rd or terminous as a major deployment site for this section of the delta.

COMMUNICATIONS LIMITATIONS / PROBLEMS: No Problems Radio Pager Cell phone

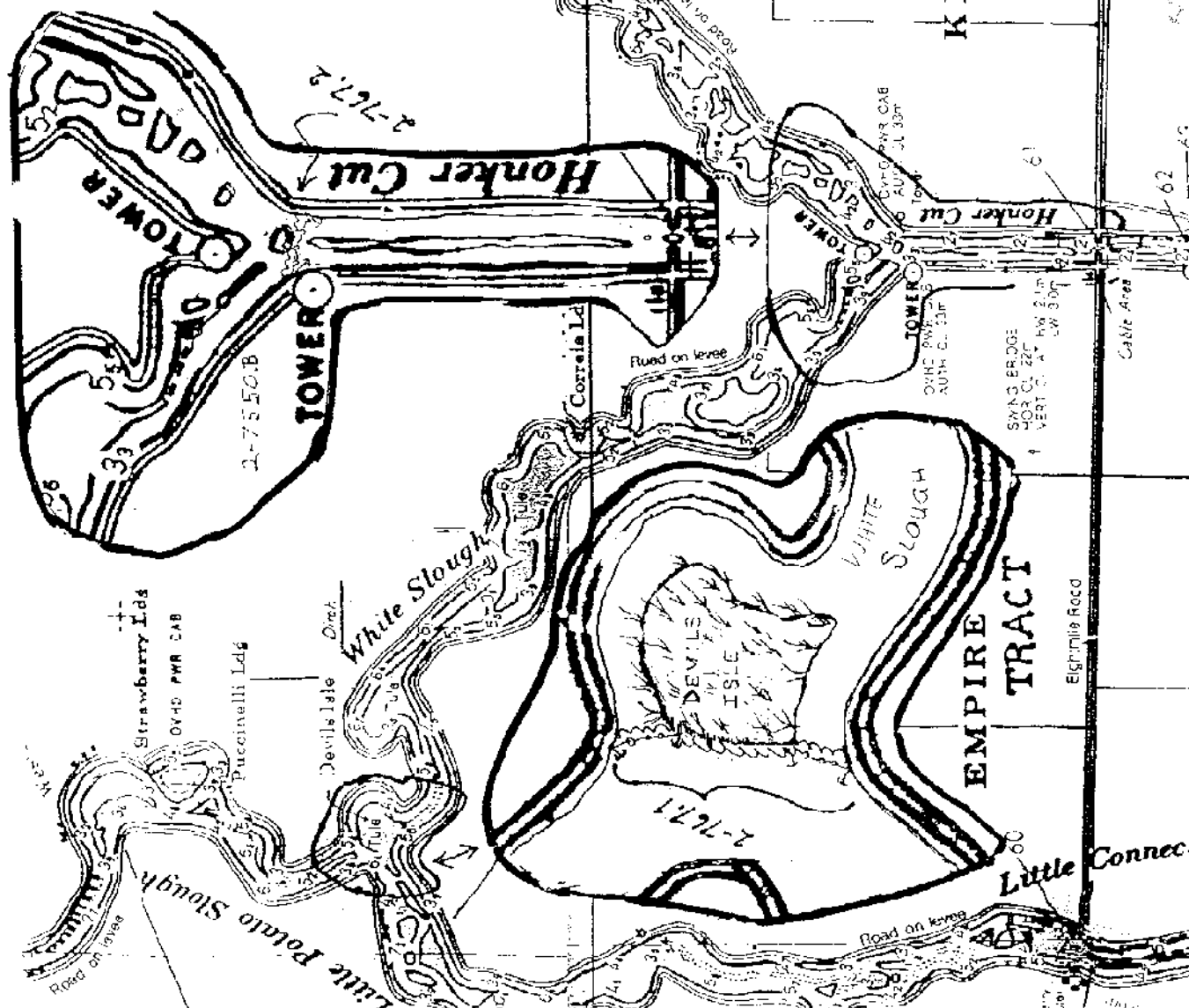
ADDITIONAL COMMENTS

SF- 80- A

POTENTIAL SITE PROTECTION
STRATEGY - LEGEND

SITE NAME: WHITES SLOUGH
SITE NUMBER: A-2-767

- Path of Oil
- Curtain Boom
- Skimmer
- Shoreline Oil Recovery
- Area



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